2023 Annual Groundwater Monitoring and Corrective Action Report - Material Storage Runoff Basin, Metal Cleaning Waste Basin, and Drying Area

NIPSCO LLC R. M. Schahfer Generating Station

Prepared Pursuant to 40 CFR §257.90(e) and Corresponding Regulations under 329 Indiana Administrative Code 10-9-1

Submitted to:

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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 Rollin M. Schahfer Generating Station (RMSGS, Schahfer) coal combustion residuals (CCR) surface impoundments Material Storage Runoff Basin (MSRB), Metal Cleaning Waste Basin (MCWB), and the Drying Area (together, the Multi-Cell Unit [MCU] or CCR Unit) located at 2723 E 1500 N, Wheatfield, Jasper County, Indiana (Latitude 41° 12' 36" and Longitude 87° 01' 48", see Figure 1). As shown in Figure 2, the MSRB and MCWB consist of two rectangular, approximately 15-acre impoundments, located adjacent to one another, separated by a narrow berm. The Drying Area is an approximately 5.5-acre impoundment that has been filled with CCR. The MCU no longer receives CCR, is inactive, and began closure construction in August 2023 in accordance with an Indiana Department of Environmental Management (IDEM)-approved Closure Application. 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.

To comply with the CCR Rule, NIPSCO and WSP decided to monitor the MCU as one CCR Unit due to the proximity of the MSRB, MCWB, and the Drying Area to one another, and because there are no practical means of monitoring groundwater between the adjacent impoundments. 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 groundwater 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
- Projects 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) in January 2018, 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 to the publicly accessible website of detections of 40 CFR Part 257 Appendix IV parameters at concentrations above applicable groundwater protection standards (GWPS) downgradient of the MCU. Consequently, NIPSCO initiated the assessment of corrective measures (ACM) process in November 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 April/May and September/October 2023. The groundwater elevations recorded during the April/May and September/October events are recorded 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. The CCR Unit began and ended the current annual reporting period in Assessment Monitoring pursuant to §257.95. WSP identified cobalt as an Appendix IV statistically significant level (SSL) in a groundwater sample collected from monitoring well GAMW-08 in 2023.

On behalf of NIPSCO, WSP completed the assessment of corrective measures for groundwater impacts and prepared the ACM Report in April 2019. As a result of discussions with IDEM regarding closure design for the MCU, and due to resultant modifications to the IDEM Closure Application that affected appropriateness of groundwater remedy alternatives previously under consideration, on behalf of NIPSCO, WSP prepared Addendum #1 to the ACM Report in November 2020, Addendum #2 to the ACM Report in July 2021, and Addendum #3 to the ACM Report in June 2022. NIPSCO held a public meeting to present the proposed remedy in November 2022 and WSP prepared the Selection of Remedy (SOR) report in December 2022. Closure activities began in 2023.

2.1 Key Actions Completed - 2023

NIPSCO completed the following key actions relative to CCR Rule groundwater monitoring at the MCU 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 February 2023 (40 CFR §257.95)
- Notification that a constituent in 40 CFR Part 257 Appendix IV exceeded the GWPS in March 2023 (40 CFR §257.95(g))
- Preparation of the Groundwater Corrective Action Monitoring Program Plan in March 2023 (40 CFR §257.98(a))
- Certification of the revised groundwater monitoring well network in April 2023 (40 CFR §257.91(f))

- Performance of the eleventh Assessment Monitoring event in April/May 2023 (40 CFR §257.95)
- Evaluation of the results of the eleventh Assessment Monitoring event in August 2023 (40 CFR §257.95)
- Performance of the twelve Assessment Monitoring event in September/October 2023 (40 CFR §257.95)

2.2 Monitoring System Modifications

Prior to the eleventh Assessment Monitoring event and in accordance with the IDEM-approved Closure Application, the background monitoring well network was modified to replace monitoring wells GAMW-04, GAMW-07/07B, and GAMW-15/15B with monitoring wells GAMW-03/03B and GAMW-68/68B (see Figure 2). Attached Table 1 provides a summary of the well rationale/purpose and date of installation. An overview of the modified groundwater monitoring network is provided in the embedded table below.

Background Monitoring Wells	Downgradient Monitoring Wells	Assessment Monitoring Wells
GAMW-04*, GAMW-07*, GAMW-07B*, GAMW-15*, GAMW-15B*, GAMW-03, GAMW-03B, GAMW-68, and GAMW-68B	GAMW-08, GAMW-08B, GAMW-09, GAMW-09B, GAMW-16R, GAMW-16BR, GAMW-17, GAMW-17B, GAMW-18 and GAMW-18B	GAMW-46, GAMW-46B, GAMW-52, GAMW-52B, GAMW-53, GAMW-53B, GAMW-54, GAMW-54B, GAMW-55R, GAMW-55B, GAMW-56, and GAMW-56B

* Monitoring well was removed from the monitoring well network prior to the eleventh Assessment Monitoring event in April 2023.

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 the new data into the background dataset and updated the GWPS in March 2020, September 2022, and August 2023. The August 2023 GWPS were calculated based on the revised background monitoring well network (GAMW-03, GAMW-03B, and GAMW-68, GAMW-68B).

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 the CCR Unit 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 40 CFR Part 257 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 identify 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 August 2018, WSP developed GWPS against which to compare the Assessment Monitoring results. Following receipt and validation of laboratory results, WSP evaluated the 40 CFR Part 257 Appendix IV constituent results relative to CCR Unit-specific GWPS (see Table 4). 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 40 CFR Part 257 Appendix IV analyte at each well. If the LCL exceeds the GWPS, there is statistical evidence of a SSL. WSP determined that SSLs existed for the MCU in August 2018 and initiated the assessment of corrective measures in November 2018.

WSP performed additional Assessment Monitoring events 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 February 2019. The results identified an SSL for cobalt at GAMW-08. 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 SSL for cobalt at GAMW-08.
- Fourth Assessment Monitoring Event – November 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 March 2020. The groundwater results confirmed the SSL for cobalt at well GAMW-08. 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).

- Boundary Well Sampling – 2019: WSP collected groundwater samples from property boundary Assessment Monitoring wells GAMW-46/46B (see Figure 2) in March, April, June, July, August, October, and November 2019. SSLs were not identified in these groundwater samples. These results are included in the 2019 Annual Report (Golder, 2020). The boundary wells have been included in the routine semi-annual sampling for the MCU since 2019.
- Fifth Assessment Monitoring Event – April/May 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 September 2020. The results confirmed the SSL for cobalt at GAMW-08.
- Sixth Assessment Monitoring Event – October 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 groundwater results confirmed the SSL for cobalt at well GAMW-08. The results from the fifth and sixth Assessment Monitoring events are included in the 2020 Annual Groundwater Monitoring and Corrective Action Report, dated January 31, 2021 (Golder 2021).
- Seventh Assessment Monitoring Event – April 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 August 2021. The results confirmed the SSL for cobalt at GAMW-08.
- Eighth Assessment Monitoring Event – September/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 January 2022. The results confirmed the SSL for cobalt at GAMW-08. The results from the seventh and eighth Assessment Monitoring events are included in the 2021 Annual Groundwater Monitoring and Corrective Action Report, dated January 31, 2022 (Golder 2022).
- Ninth Assessment Monitoring Event – April 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 September 2022. The results confirmed the SSL for cobalt at GAMW-08.
- Tenth Assessment Monitoring Event – September/October 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 February 2023. The results confirmed the SSL for cobalt at GAMW-08. The results from the ninth and tenth Assessment Monitoring events are included in the 2022 Annual Groundwater Monitoring and Corrective Action Report, dated January 31, 2023 (WSP 2023).

- Eleventh Assessment Monitoring Event – April/May 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 of the eleventh Assessment Monitoring event in August 2023. No SSLs were identified.
- Twelfth Assessment Monitoring Event – September/October 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 of the twelfth Assessment Monitoring event in February 2024.

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

2.6 Corrective Action

NIPSCO held a public meeting in November 2022 and WSP, on behalf of NIPSCO, prepared the SOR report in December 2022. The selected groundwater remedy for the MCU is monitored natural attenuation (MNA) in combination with the planned MCU closure activities, including excavation and removal of CCR source material, dewatering, and placement of a low-permeability geosynthetic cover system over the MCU. The existing perimeter slurry walls, with one modification to address potential water build-up within the closed impoundment, will be retained following closure. Closure will eliminate soil as a medium of concern leaving residual impacts in groundwater as the remaining medium requiring remediation, with cobalt as the only Appendix IV contaminant of concern. Closure of the MCU began in August 2023 and is expected to be completed in 2024. In accordance with 40 CFR §257.97(a)(1), NIPSCO established a Corrective Action Monitoring program in March 2023. It is anticipated that the first Corrective Action Monitoring event will occur within one month of completion of closure activities.

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 Statistical Evaluation

After each monitoring event, WSP assessed the analytical data for outliers, anomalies, and trends that might 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.

In addition to the outliers identified in the 2022 Annual Report, WSP identified the following outliers in 2023.

Golder identified groundwater data obtained from GAMW-16R and GAMW-16BR in September 2022 and April 2023 as outliers and removed these data from the data set. Specifically, the following results were identified as outliers:

- Boron results collected in September 2022 and April 2023 from GAMW-16R and GAMW-16BR
- Lithium results collected in September 2022 and April 2023 from GAMW-16BR
- Molybdenum results collected in September 2022 from GAMW-16BR

These results were identified as outliers and removed from the dataset for the following reasons:

- Generally, statistical testing, including the Dixon outlier test (see Appendix D), identified the results as outliers; and
- In Summer 2020 during construction activities to divert non-CCR discharges from the MCU to another impoundment, NIPSCO performed aquifer dewatering activities near these wells. Trend charts indicate that the dewatering activities affected the October 2020 data. The 2023 data indicates that the results are trending toward preconstruction concentrations.

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-03B show a deceasing trend and arsenic has never been detected above the MCL in this well. No detrending routines are required.
- Beryllium concentrations detected in groundwater samples collected from GAMW-03 and GAMW-03B show a decreasing trend, beryllium has never been detected above the laboratory reporting limit in these wells, and all background beryllium results are below the MCL, therefore, the GWPS is equal to the MCL. No detrending routines are required.
- Cadmium concentrations detected in groundwater samples collected from GAMW-03 and GAMW-03B show a decreasing trend, cadmium has never been detected above the laboratory reporting limit in these wells, and all background cadmium results are below the MCL, therefore, the GWPS is equal to the MCL. No detrending routines are required.
- Chromium concentrations detected in groundwater samples collected from GAMW-03 show a decreasing trend, chromium has never been detected above the laboratory reporting limit in this well, and all background chromium 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-03 and GAMW-03B show a decreasing trend, lead has never been detected above the laboratory reporting limit in this well, and all background lead results are below the health-based standard, therefore the GWPS is equal to the health-based standard. No detrending routines are required.
- Molybdenum concentrations detected in groundwater samples collected from GAMW-03B 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.

- Thallium concentrations detected in groundwater samples collected from GAMW-03 and GAMW-03B show a decreasing trend, thallium has never been detected above the laboratory reporting limit in these wells, and all background thallium 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 Standard

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 the new data into the background dataset and updated the GWPS in March 2020, September 2022, and August 2023 (see Table 5). The August 2023 GWPS include the revised background monitoring well network (GAMW-03, GAMW-03B, GAMW-68, and GAMW-68B). A summary of the GWPS is provided in Table 5. The corresponding tolerance limits and/or prediction limits are provided in Appendix D.

2.7.3 Results of Appendix IV Downgradient Statistical Comparison

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 February 2023 identify an SSL for cobalt in monitoring well GAMW-08. Trend analysis indicates that there is a statistically significant decreasing trend for cobalt in GAMW-08, however, at the time of the statistical analysis (February 2023) the upper confidence band was above the GWPS, resulting in an SSL for this location. In August 2023, SSLs were evaluated compared to the revised GWPS. The upper confidence band for cobalt in monitoring well GAMW-08, was below the GWPS, indicating that this is no longer an SSL. The calculated confidence intervals and confidence band for cobalt at GAMW-08 is provided in Appendix F.

2.8 Problems Encountered and Follow-Up Corrective Actions

WSP encountered elevated turbidity levels (i.e., >5 nephelometric turbidity units - NTUs) during the 2023 Assessment Monitoring events including:

- Eleventh Assessment Monitoring event (April/May 2023); WSP collected groundwater samples from monitoring wells GAMW-16R, GAMW-53, GAMW-56B, and GAMW-68 at turbidity levels of 17.89, 6.57, 29.53, and 7.89 NTUs, respectively.
- Twelfth Assessment Monitoring event (September/October 2023); WSP collected the groundwater sample from monitoring well GAMW-03B at a turbidity level of 6.80 NTUs.

According to the CCR Groundwater Monitoring Program Implementation Manual (Golder 2017), groundwater samples will be collected once groundwater has achieved a turbidity level below 5 NTUs. Due to time constraints in the field, WSP purged groundwater from the wells for a minimum of two hours and sampled when turbidity appeared to stabilize (e.g., no downward or upward trend over three consecutive readings five minutes apart). Evaluation of the analytical results from this well suggests that the slightly elevated turbidity level had no significant effect on the representativeness of the samples of groundwater quality. During future monitoring events, WSP will purge groundwater for a minimum of two hours or five well volumes, whichever is less. WSP will use professional judgement to assess whether purge water is representative of groundwater for sampling. If an acceptable turbidity level cannot be achieved within a reasonable timeframe (e.g., three hours, maximum), WSP will redevelop the affected monitoring well(s) prior to the next sampling event.

3.0 KEY ACTIVITIES PROJECTED FOR 2024

During calendar year 2024, NIPSCO anticipates conducting the following key CCR Rule groundwater monitoring activities for the MSRB, MCWB, and Drying Area:

- Prepare and submit the appropriate notifications according to the CCR Rule
- Continue semi-annual Assessment Monitoring groundwater sampling per CCR Rule requirements
- Complete closure construction activities and begin Corrective Action groundwater monitoring program (40 CFR §257.98)
- Inspect and maintain the monitoring system including wells, pumps, and equipment.

4.0 REFERENCES

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WSP USA Inc., “2022 Annual Groundwater Monitoring and Corrective Action Report- Material Storage Runoff Basin, Metal Cleaning Waste Basin, and Drying Area NIPSCO R. M. Schahfer Generating Station”, January 31, 2023.

WSP USA Inc., “Groundwater Corrective Action Monitoring Program Plan”, March 2023.

TABLES

Table 1 Monitoring Well Network
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC Rollin M. Schahfer Generating Station
Wheatfield, Indiana

CCR Unit	Well Purpose	Monitoring Well ID	Installation Date	Decommission Date (If Applicable)	Basis For Action
Material Storage Runoff Basin, Metal Cleaning Waste Basin, and Drying Area	Background Monitoring Well	GAMW-04	6/27/2015	-	Removed from background monitoring well network[7]
		GAMW-07	6/29/2015	-	
		GAMW-15	5/25/2016	-	
		GAMW-15B	5/24/2016	-	
		GAMW-07B	7/25/2018	-	
		GAMW-03	6/27/2015	-	Installed for groundwater quality monitoring[8]
		GAMW-03B	5/24/2016	-	
		GAMW-68	8/27/2020	-	
		GAMW-68B	8/27/2020	-	
	Downgradient Monitoring Well	GAMW-08	6/28/2015	-	Installed for groundwater quality monitoring[1]
		GAMW-09	6/28/2015	-	
		GAMW-09B	5/24/2016	-	
		GAMW-16	5/26/2016	NA	Removed during construction activities[5]
		GAMW-16R	9/23/2020	-	Installed to replace GAMW-16[5]
		GAMW-16B	5/25/2016	9/22/2020	Decommissioned due to construction activities[6]
		GAMW-16BR	9/22/2020	-	Installed to replace GAMW-16B[6]
		GAMW-17	5/25/2016	-	Installed for groundwater quality monitoring[1]
		GAMW-17B	5/25/2016	-	
		GAMW-18	5/24/2016	-	
		GAMW-08B	7/25/2018	-	Installed to characterize the nature and extent of a potential release[2]
		GAMW-18B	7/26/2018	-	
		GAMW-52	7/30/2018	-	
		GAMW-52B	7/30/2018	-	
		GAMW-53	7/30/2018	-	
		GAMW-53B	7/30/2018	-	
		GAMW-54	7/30/2018	-	
		GAMW-54B	7/27/2018	-	
		GAMW-55	7/26/2018	6/8/2019	Decommissioned due to well casing damage[4]
		GAMW-55R	6/8/2019	-	Installed to replace GAMW-55[4]
		GAMW-55B	7/26/2018	-	Installed to characterize the nature and extent of a potential release[2]
		GAMW-56	7/27/2018	-	
		GAMW-56B	7/27/2018	-	
		GAMW-46	5/15/2018	-	Installed to monitor groundwater quality at the property boundary[3]
		GAMW-46B	5/15/2018	-	

Notes:

1) Per 40 CFR §257.93, WSP collected eight rounds of background data prior to October 17, 2017.

2) Per 40 CFR §257.95(g)(1)(i) Rule requirements, WSP collected additional data to further characterize the nature and extent of potential groundwater impacts.

3) Per 40 CFR §257.95(g)(1)(iii), WSP collected data to monitor groundwater quality in the direction of flow at the property boundary

4) WSP field personnel were unable to collect a groundwater sample from monitoring well GAMW-55 during the April 2019 Assessment Monitoring sampling event due to surface damage (i.e., tubing above the permanent pump was pinched at less than 10 feet below ground surface). The well was replaced with GAMW-55R in June 2019.

5) Monitoring well GAMW-16 was completely removed during construction excavation activities in 2020. No decommissioning was required. The well was replaced with GAMW-16R in September 2020.

6) Monitoring well GAMW-16B was decommissioned during construction activities in 2020. The well was replaced with GAMW-16BR in September 2020.

7) Monitoring wells GAMW-04, GAMW-07/07B, and GAMW-15/15B were removed from the background monitroing well network in 2023.

8) In accordance with the IDEM-Approved Closure Application, the background monitoring well network was modified to include GAMW-03/03B and GAMW-68/68B in 2023.

NA= Not applicable

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

Table 2: 2023 Groundwater Elevations
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC Rollin M. Schahfer Generating Station
Wheatfield, Indiana

Monitoring Well Location	Northing (ft)	Easting (ft)	Top of Casing Elevation (ft-NAVD88)	Screen Interval		Well Diameter (in)	Stickup (ft)	2023-04-11		2023-09-06	
				Top (ft-bgs)	Bottom (ft-bgs)			Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)
AT-02	2171314.76	2971144.02	672.57	18	38	6	1.96	7.14	665.43	22.50	650.07
AT-01	2171895.27	2971270.60	669.04	23.5	33.5	6	2.94	6.05	662.99	9.75	659.29
DAVIS South Culvert	2168387.49	2971366.64	662.83	-	-	-	-	1.75	661.08	2.70	660.13
GAMW01	2169108.22	2968518.99	668.23	5	15	2	3.29	8.38	659.85	9.35	658.88
GAMW01B	2169107.37	2968525.20	667.87	26	36	2	2.67	7.92	659.95	8.92	658.95
GAMW02	2168720.88	2970548.50	669.57	5	15	2	3.49	8.30	661.27	9.45	660.12
GAMW03	2169821.53	2971646.34	668.20	5	15	2	3.06	4.49	663.71	9.50	658.70
GAMW03B	2169813.71	2971647.06	668.16	25	35	2	2.87	4.47	663.69	9.52	658.64
GAMW04	2170947.82	2971503.36	669.24	5	15	2	3.43	5.78	663.43	NM	
GAMW05	2170870.00	2968721.92	669.75	7	17	2	3.06	9.32	660.43	11.35	658.40
GAMW06	2172320.06	2969128.60	670.81	5	15	2	3.31	9.62	661.19	11.92	658.89
GAMW07	2172327.53	2970256.34	669.94	5	15	2	3.39	8.90	661.04	NM	
GAMW07B	2172318.59	2970251.36	669.39	30	40	2	2.56	8.28	661.11	10.27	659.12
GAMW08	2173335.20	2970799.89	669.76	5	15	2	3.81	8.75	661.01	11.18	658.58
GAMW08B	2173334.70	2970790.59	668.47	26	36	2	2.55	7.52	660.95	9.95	658.52
GAMW09	2172509.36	2971291.29	668.56	5	15	2	3.46	6.73	661.83	9.92	658.64
GAMW09B	2172502.57	2971291.67	668.29	25	35	2	2.94	6.36	661.93	9.56	658.73
GAMW10	2173531.42	2973046.25	667.83	5	15	2	3.84	8.58	659.25	10.16	657.67
GAMW11	2174218.62	2972678.78	667.17	5	15	2	3.57	8.44	658.73	9.52	657.65
GAMW12	2169576.84	2968314.48	667.29	5	15	2	2.94	7.93	659.36	8.80	658.49
GAMW12B	2169580.32	2968309.54	666.81	25	35	2	2.58	7.34	659.47	8.20	658.61
GAMW13	2170059.98	2968285.46	667.24	5	15	2	2.93	7.93	659.31	8.90	658.34
GAMW13B	2170055.88	2968285.69	667.12	25	35	2	2.89	7.83	659.29	8.80	658.32
GAMW14	2170532.49	2968467.96	667.96	5	15	2	3.20	8.16	659.80	9.08	658.88
GAMW14B	2170534.66	2968471.60	667.94	25	35	2	3.32	8.11	659.83	9.68	658.26
GAMW15	2172753.76	2970258.35	668.25	5	15	2	3.24	7.52	660.73	9.35	658.90
GAMW15B	2172749.68	2970258.92	668.05	25	35	2	2.91	7.32	660.73	9.20	658.85
GAMW16BR	2173189.53	2970399.45	667.32	30	40	2	2.93	6.45	660.87	9.20	658.12
GAMW16R	2173189.51	2970396.68	667.17	10	20	2	2.82	6.32	660.85	9.05	658.12
GAMW17	2173164.44	2970944.07	671.93	5	15	2	3.12	10.92	661.01	13.42	658.51
GAMW17B	2173164.84	2970947.44	670.60	25	35	2	1.74	9.60	661.00	12.10	658.50
GAMW18	2171919.78	2971272.41	669.07	5	15	2	3.03	6.79	662.28	10.35	658.72
GAMW18B	2171910.00	2971272.53	668.47	25	35	2	2.53	5.86	662.61	9.62	658.85
GAMW20	2171579.62	2974761.60	667.21	6	16	2	2.60	8.78	658.43	9.60	657.61

Table 2: 2023 Groundwater Elevations
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC Rollin M. Schahfer Generating Station
Wheatfield, Indiana

Monitoring Well Location	Northing (ft)	Easting (ft)	Top of Casing Elevation (ft-NAVD88)	Screen Interval		Well Diameter (in)	Stickup (ft)	2023-04-11		2023-09-06	
				Top (ft-bgs)	Bottom (ft-bgs)			Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)
GAMW20B	2171579.95	2974757.37	667.40	22.5	32.5	2	2.92	8.86	658.54	9.56	657.84
GAMW24	2171048.72	2974868.68	665.39	6	16	2	3.30	5.78	659.61	7.58	657.81
GAMW24B	2171050.67	2974866.89	665.33	21	31	2	3.20	5.60	659.73	7.40	657.93
GAMW25	2171586.03	2973730.34	668.05	6	16	2	2.79	8.65	659.40	10.06	657.99
GAMW25B	2171588.49	2973730.66	667.95	25	35	2	2.69	8.58	659.37	9.98	657.97
GAMW26	2172243.83	2973744.80	667.71	6	16	2	2.82	9.18	658.53	9.95	657.76
GAMW26B	2172245.87	2973744.66	667.75	23	33	2	2.84	9.19	658.56	9.95	657.80
GAMW27	2172624.68	2973958.32	665.51	6	16	2	2.83	7.10	658.41	7.92	657.59
GAMW27B	2172624.95	2973960.21	665.44	21	31	2	2.79	7.02	658.42	7.85	657.59
GAMW29	2173593.41	2975290.48	669.49	6	16	2	2.91	10.73	658.76	NM[1]	
GAMW29B	2173594.69	2975292.88	669.45	26	36	2	2.81	10.55	658.90	NM[1]	
GAMW30	2173602.07	2974396.02	666.92	6	16	2	2.65	8.22	658.70	NM[1]	
GAMW30B	2173601.53	2974399.23	666.88	22	32	2	2.61	8.16	658.72	NM[1]	
GAMW31	2174043.93	2974076.43	665.40	6	16	2	2.72	6.78	658.62	8.30	657.10
GAMW31B	2174041.68	2974075.83	665.41	20	30	2	2.72	6.75	658.66	8.30	657.11
GAMW32	2174364.59	2974353.14	668.08	8	18	2	2.64	9.32	658.76	10.98	657.10
GAMW32B	2174364.70	2974350.09	668.28	24	34	2	2.75	9.50	658.78	11.15	657.13
GAMW33	2174015.71	2976811.15	665.29	6	16	2	2.66	6.58	658.71	8.08	657.21
GAMW33B	2174015.85	2976814.01	665.29	21	31	2	2.86	6.50	658.79	8.02	657.27
GAMW34	2173123.80	2976637.58	664.82	4	16	2	3.04	5.85	658.97	7.30	657.52
GAMW34B	2173126.75	2976637.84	664.84	19	29	2	3.19	5.85	658.99	7.30	657.54
GAMW35B	2172046.64	2976576.97	664.62	14	24	2	2.84	5.18	659.44	6.95	657.67
GAMW36	2174145.14	2977866.72	665.00	6	16	2	2.76	5.65	659.35	8.12	656.88
GAMW36B	2174142.51	2977866.95	665.07	24.5	34.5	2	2.72	5.65	659.42	8.12	656.95
GAMW37B	2173307.54	2977852.54	665.32	15	25	2	2.64	5.80	659.52	7.82	657.50
GAMW38	2173106.90	2974209.73	663.29	5	15	2	2.36	4.63	658.66	NM[1]	
GAMW38B	2173104.46	2974206.66	663.31	19.5	29.5	2	2.50	4.70	658.61	NM[1]	
GAMW39	2173099.95	2974491.99	663.53	5	15	2	2.49	4.76	658.77	NM[1]	
GAMW39B	2173103.21	2974490.70	663.49	19.5	29.5	2	2.53	4.77	658.72	NM[1]	
GAMW40	2173336.21	2974705.88	666.56	5	15	2	2.45	7.70	658.86	NM[1]	
GAMW40B	2173336.05	2974709.34	666.40	21.5	31.5	2	2.35	7.60	658.80	NM[1]	
GAMW41	2173334.04	2975014.68	662.43	5	15	2	2.34	3.44	658.99	NM[1]	
GAMW41B	2173337.10	2975019.42	662.17	17	27	2	2.09	3.24	658.93	NM[1]	

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Wheatfield, Indiana

Monitoring Well Location	Northing (ft)	Easting (ft)	Top of Casing Elevation (ft-NAVD88)	Screen Interval		Well Diameter (in)	Stickup (ft)	2023-04-11		2023-09-06	
				Top (ft-bgs)	Bottom (ft-bgs)			Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)
GAMW42	2170186.91	2967937.39	665.80	5	15	2	2.68	6.40	659.40	7.62	658.18
GAMW42B	2170182.55	2967943.17	665.66	26	36	2	2.51	6.28	659.38	7.50	658.16
GAMW42C	2170207.09	2967974.69	666.30	40	50	2	3.09	6.92	659.38	8.11	658.19
GAMW43	2170878.63	2967926.92	665.59	5	15	2	2.45	6.10	659.49	7.62	657.97
GAMW43B	2170876.91	2967926.66	665.53	16	26	2	2.41	6.00	659.53	7.55	657.98
GAMW44	2171240.72	2967833.09	666.31	5	15	2	2.20	6.75	659.56	8.40	657.91
GAMW44B	2171239.72	2967834.35	666.25	26	36	2	2.14	6.75	659.50	8.34	657.91
GAMW45	2178836.29	2971287.41	664.50	5	15	2	2.29	7.23	657.27	10.05	654.45
GAMW45B	2178836.27	2971289.23	664.32	28	38	2	2.09	7.03	657.29	10.05	654.27
GAMW46	2178839.03	2973531.39	664.80	5	15	2	2.81	6.58	658.22	NM	
GAMW46B	2178838.97	2973532.88	664.79	22	32	2	2.81	6.58	658.21	9.88	654.91
GAMW48	2178605.72	2975279.25	663.38	5	15	2	2.57	5.88	657.50	8.93	654.45
GAMW48B	2178606.46	2975283.24	663.33	20	30	2	2.89	5.85	657.48	8.90	654.43
GAMW49	2176111.21	2976600.94	664.64	5	15	2	2.64	5.32	659.32	8.40	656.24
GAMW49B	2176115.76	2976600.61	664.52	23	33	2	2.40	5.12	659.40	8.20	656.32
GAMW50	2174957.14	2977953.35	665.15	5	15	2	2.65	5.94	659.23	8.58	656.57
GAMW50B	2174961.01	2977953.31	664.88	21	31	2	2.62	5.65	659.25	8.30	656.58
GAMW51	2171145.47	2968512.12	668.77	5	15	2	2.62	8.61	659.96	10.38	658.39
GAMW51B	2171147.99	2968515.78	668.79	27	37	2	2.76	8.38	660.41	10.26	658.53
GAMW52	2175030.90	2970079.13	666.79	5	15	2	2.72	7.48	659.31	8.84	657.95
GAMW52B	2175032.00	2970073.23	666.90	27	37	2	2.40	7.57	659.33	8.94	657.96
GAMW53	2174535.34	2971036.47	667.24	5	15	2	2.56	7.90	659.34	9.35	657.89
GAMW53B	2174536.54	2971032.60	667.29	26	36	2	2.67	7.89	659.40	9.33	657.96
GAMW54	2174080.28	2971911.36	666.37	5	15	2	2.50	6.34	660.03	8.22	658.15
GAMW54B	2174081.64	2971906.90	666.47	22	32	2	2.49	6.54	659.93	8.40	658.07
GAMW55B	2173632.34	2972222.72	667.53	25	35	2	2.35	7.37	660.16	9.34	658.19
GAMW55R	2173631.97	2972230.54	667.73	5	15	2	2.37	7.53	660.20	9.52	658.21
GAMW56	2173343.43	2972428.30	667.91	5	15	2	2.48	7.62	660.29	9.72	658.19
GAMW56B	2173343.23	2972423.77	667.82	25	35	2	2.49	7.51	660.31	9.60	658.22
GAMW57	2171592.09	2967729.66	672.99	5	15	2	2.52	13.38	659.61	15.10	657.89
GAMW57B	2171592.28	2967726.72	672.90	35	45	2	2.44	13.28	659.62	15.00	657.90
GAMW58	2171902.75	2967863.88	667.56	5	15	2	2.52	8.42	659.14	9.58	657.98
GAMW58B	2171900.81	2967867.00	667.61	25	35	2	2.73	8.45	659.16	9.62	657.99
GAMW59	2171317.51	2968668.03	668.51	5	15	2	2.58	7.92	660.59	10.08	658.43
GAMW59B	2171313.72	2968668.36	668.57	30	40	2	2.61	7.96	660.61	10.12	658.45

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				Top (ft-bgs)	Bottom (ft-bgs)			Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)
GAMW60	2171552.61	2968698.92	667.52	5	15	2	2.43	6.99	660.53	9.20	658.32
GAMW60B	2171549.04	2968699.96	667.52	30	40	2	2.46	6.81	660.71	9.00	658.52
GAMW63B	2171969.16	2971860.97	668.76	23	33	2	2.45	6.59	662.17	10.02	658.74
GAMW64B	2171789.81	2972174.66	666.85	21	31	2	2.43	5.01	661.84	8.22	658.63
GAMW65B	2173229.48	2968253.82	668.67	25	35	2	3.22	8.88	659.79	10.34	658.33
GAMW66B	2173363.62	2967853.20	672.99	34	44	2	3.79	14.00	658.99	14.90	658.09
GAMW67B	2174213.30	2967604.35	667.97	30.5	40.5	2	3.32	9.10	658.87	10.38	657.59
GAMW68	2970328.36	2168555.54	665.53	7	17	2	-0.40	4.35	661.18	5.68	659.85
GAMW68B	2970325.08	2168557.42	665.72	24.5	34.5	2	-0.28	4.53	661.19	5.90	659.82
GAMW72	2173514.76	2973920.43	666.93	5	15	2	2.82	NM[2]		NM	
GAMW72B	2173511.12	2973920.44	666.88	21	31	2	2.68	NM[2]		9.06	657.82
GAMW73	2173737.29	2974225.62	664.26	5	15	2	2.62	NM[2]		6.58	657.68
GAMW73B	2173740.94	2974228.37	664.31	18	18	2	2.65	NM[2]		6.60	657.71
GAMW74	2173737.57	2974539.26	664.44	5	15	2	2.82	NM[2]		6.75	657.69
GAMW74B	2173737.58	2974542.01	664.21	18	18	2	2.59	NM[2]		6.50	657.71
GAPIEZ03	2168915.06	2970509.00	683.54	20	25	2	3.13	8.64	674.90	7.70	675.84
GAPIEZ04	2170737.64	2968871.61	683.28	21	26	2	3.21	8.34	674.94	7.43	675.85
GAPIEZ05	2172113.64	2969141.22	684.73	17	22	2	3.56	4.59	680.14	7.70	677.03
GAPIEZ06	2172181.53	2970343.74	672.79	20	25	2	3.50	8.03	664.76	11.90	660.89
GAPIEZ07	2174443.92	2973071.62	668.77	5	15	2	3.62	10.35	658.42	11.37	657.40
MCU Staff Gauge	2173044.97	2970706.43	669.56	-	-	-	-	5.08	664.48	NM	
MW-10D	2171037.13	2974845.36	663.18	NA	NA	2	0.98	3.40	659.78	5.22	657.96
MW-10S	2171039.40	2974843.76	662.53	NA	NA	2	0.58	2.75	659.78	4.60	657.93
MW-11D	2175123.58	2976338.85	663.57	NA	NA	2	2.06	4.75	658.82	6.74	656.83
MW-11S	2175119.58	2976338.76	663.25	NA	NA	2	1.79	4.42	658.83	6.42	656.83
MW-12D	2175120.55	2975384.31	663.60	NA	NA	2	2.02	4.67	658.93	6.62	656.98
MW-12S	2175120.73	2975379.24	663.48	NA	NA	2	1.94	4.56	658.92	6.52	656.96
MW-13D	2173960.00	2976837.35	664.80	NA	NA	2	2.77	5.98	658.82	7.52	657.28
MW-13S	2173953.77	2976836.91	664.67	NA	NA	2	2.45	5.85	658.82	7.42	657.25
MW-14D	2174539.41	2977869.89	665.41	NA	NA	2	2.77	6.10	659.31	8.65	656.76
MW-14S	2174539.25	2977863.57	665.24	NA	NA	2	2.67	5.92	659.32	8.45	656.79
MW-1D	2170444.49	2973803.64	668.86	NA	NA	2	2.50	6.62	662.24	10.28	658.58
MW-1S	2170448.20	2973803.98	668.81	NA	NA	2	2.38	6.58	662.23	10.23	658.58

Table 2: 2023 Groundwater Elevations
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC Rollin M. Schahfer Generating Station
Wheatfield, Indiana

Monitoring Well Location	Northing (ft)	Easting (ft)	Top of Casing Elevation (ft-NAVD88)	Screen Interval		Well Diameter (in)	Stickup (ft)	2023-04-11		2023-09-06	
				Top (ft-bgs)	Bottom (ft-bgs)			Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)	Depth to Water (ft-btoc)	Groundwater Elevation (ft-NAVD88)
MW-2D	2172923.26	2976537.67	663.73	NA	NA	2	1.56	4.64	659.09	6.08	657.65
MW-2S	2172927.38	2976537.39	664.10	NA	NA	2	2.00	5.00	659.10	6.45	657.65
MW-3D	2174870.27	2976027.63	667.58	NA	NA	2	2.74	9.13	658.45	10.72	656.86
MW-3S	2174870.86	2976031.85	667.58	NA	NA	2	2.76	9.00	658.58	10.52	657.06
MW-4D	2174850.77	2974079.15	666.56	NA	NA	2	2.43	8.20	658.36	9.46	657.10
MW-4S	2174855.51	2974079.60	666.90	NA	NA	2	2.64	8.55	658.35	9.78	657.12
MW-5D	2172943.46	2973945.66	664.37	NA	NA	2	1.62	5.92	658.45	6.85	657.52
MW-5S	2172947.30	2973945.82	664.29	NA	NA	2	1.57	5.84	658.45	6.75	657.54
MW-6D	2176184.07	2979231.73	664.64	NA	NA	2	2.85	7.05	657.59	10.45	654.19
MW-6S	2176187.92	2979232.21	664.61	NA	NA	2	2.60	7.02	657.59	10.45	654.16
MW-7D	2176191.44	2976686.21	664.72	NA	NA	2	2.71	5.46	659.26	8.60	656.12
MW-7S	2176190.47	2976682.35	664.80	NA	NA	2	2.81	5.46	659.34	8.60	656.20
MW-8D	2178623.03	2975045.81	663.52	NA	NA	2	2.18	5.62	657.90	8.88	654.64
MW-8S	2178621.44	2975049.79	663.75	NA	NA	2	2.33	5.85	657.90	9.20	654.55
MW-9D	2178811.96	2972838.00	662.68	NA	NA	2	0.84	5.07	657.61	7.80	654.88
MW-9S	2178809.97	2972839.80	662.42	NA	NA	2	0.59	4.82	657.60	7.55	654.87
SW-10	2170976.65	2975340.69	660.45	-	-	-	0	1.60	658.85	2.20	658.25
SW-4	2174898.62	2973926.86	662.48	-	-	-	0	0.50	661.98	1.30	661.18
Davis Ditch West Gate	2173623.30	2967604.35	668.17	-	-	-	-	10.14	658.03	10.10	658.07

Notes:

Prepared by: GRD
Checked by: SHL
Reviewed by: MAH

Locations surveyed in US State Plane Indiana West Zone North American Datum of 1983 and North American Vertical Datum of 1988 (ft)
CCR = coal combustion residual
ft-bgs = feet below ground surface
ft-btoc = feet below top of casing
ft-NAVD88 = feet relative to NAVD88
in = inch
NA = not available
NM = not measured or not measurable (water level below top of pump)
1) Monitoring well was decommissioned in April 2023, and therefore water levels were not collected from these wells in September 2023.
2) Monitoring well was installed in April 2023, and water levels were first collected for these wells in September 2023.

Table 3: Summary of Sampling Events
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC Rollin M. Schahfer Generating Station
Wheatfield, 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-03	4/14/2023	9/15/2023	2
	GAMW-03B	4/14/2023	9/15/2023	2
	GAMW-68	5/1/2023	10/2/2023	2
	GAMW-68B	5/1/2023	10/2/2023	2
Downgradient Monitoring Well	GAMW-08	4/21/2023	9/19/2023	2
	GAMW-08B	4/21/2023	9/19/2023	2
	GAMW-09	4/19/2023	9/21/2023	2
	GAMW-09B	4/19/2023	9/21/2023	2
	GAMW-16R	4/20/2023	9/20/2023	2
	GAMW-16BR	4/21/2023	9/20/2023	2
	GAMW-17	4/19/2023	9/20/2023	2
	GAMW-17B	4/20/2023	10/2/2023	2
	GAMW-18	4/19/2023	9/21/2023	2
	GAMW-18B	4/20/2023	9/22/2023	2
	GAMW-46	4/27/2023	10/3/2023	2
	GAMW-46B	4/27/2023	10/3/2023	2
	GAMW-52	4/25/2023	9/25/2023	2
	GAMW-52B	4/25/2023	9/25/2023	2
	GAMW-53	4/24/2023	9/28/2023	2
	GAMW-53B	4/24/2023	9/28/2023	2
	GAMW-54	4/26/2023	9/25/2023	2
	GAMW-54B	4/26/2023	9/25/2023	2
	GAMW-55R	4/26/2023	9/29/2023	2
	GAMW-55B	4/26/2023	9/29/2023	2
	GAMW-56	4/21/2023	9/22/2023	2
	GAMW-56B	4/21/2023	9/25/2023	2
Total Number of Samples		26	26	52

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 elventh and twelfth Assessment Monitoring events, respectively.

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

Table 4: 2023 Analytical Data
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC R. M. Schahfer Generating Station
Wheatfield, Indiana

Sample Location		GAMW03		GAMW03B		GAMW08		GAMW08B		GAMW09		GAMW09B			GAMW16BR		GAMW16R		GAMW17		GAMW17B	
Sample Date		2023-04-14	2023-09-15	2023-04-14	2023-09-15	2023-04-21	2023-09-19	2023-04-21	2023-09-19	2023-04-19	2023-09-21	2023-04-19		2023-09-21	2023-04-21	2023-09-20	2023-04-20	2023-09-20	2023-04-19	2023-09-20	2023-04-20	2023-10-02
Sample Type		N	N	N	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Chemical	Unit																					
CCR Appendix III																						
Boron	mg/L	0.25	0.12	0.35	0.42	1.5	1.6	11.7	15.5	2.3	1.9	7.9	7.7	8.5	22.3 O	12.9	2.9 O	6.1	11.2	8	9.8	11.4
Calcium	mg/L	95.4	69.4	102	108	298	253	230	216	175	220	252	249	291	522	265	256	137	260	172	225	288
Chloride	mg/L	2.8	4.1	25	24.5	62.7	57.5	187	219	28.5	21.7	103	100	126	392	245	41.7	44.3	125	35.8	134	156
Fluoride	mg/L	0.22	0.16	0.19	0.21	1.8	1.7	1.3	1.4	0.25	0.27	0.85	0.84	0.84	0.63	0.75	0.58	0.65	1.2	1.4	0.56	0.66
pH	SU	7.6 J	7.1 J	7.5 J	6.9 J	7.3 J	7 J	7.4 J	7.2 J	7.4 J	7.6 J	7.1 J	7.3 J	7.4 J	7.5 J	7.2 J	7.4 J	7.2 J	7.5 J	7.3 J	7.3 J	7.5 J
Sulfate	mg/L	101	34.9	111	118	550	494	1060	1160	416	489	734	756	944	2360	786	549	181	559	348	553	834
Total Dissolved Solids	mg/L	403	280	465	477	1480	1290	2050	2310	778	957	1360	1370	1740	4420	1860	1080	656	1160	843	1320	1480
CCR Appendix IV																						
Antimony	mg/L	0.00056 J	0.001 U	8.6E-05 J	0.001 U	0.00064 J	0.00077 J	0.001 U	0.001 U	0.00013 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00021 J	0.00026 J	0.001 U	0.001 U
Arsenic	mg/L	0.0027	0.016	0.00043 J	0.00044 J	0.0023	0.0025	0.00031 J	0.00049 J	0.00019 J	0.0002 J	0.0022	0.0023	0.0018	0.0016	0.0023	0.005	0.0068	0.0017	0.0025	0.0031	0.0028
Barium	mg/L	0.082	0.071	0.11	0.11	0.047	0.051	0.055	0.05	0.053	0.04	0.044	0.045	0.058	0.053	0.026	0.042	0.038	0.07	0.059	0.064	0.069
Beryllium	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	0.00082	0.00029	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Cadmium	mg/L	7E-05 J	0.0002 U	0.0002 U	0.0002 U	0.00011 J	8E-05 J	0.0002 U	0.0002 U	0.00025	0.0001 J	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Chromium	mg/L	0.00039 J	0.0004 J	0.00044 J	0.00054 J	0.00048 J	0.002 U	0.00023 J	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.00056 J	0.00049 J	0.002 U	0.00031 J	0.002 U	0.00067 J	0.002 U	0.002 U
Cobalt	mg/L	0.0015	0.00081 J	0.00041 J	0.0002 J	0.0032	0.0044	0.00038 J	0.00036 J	0.0015	0.00044 J	0.00069 J	0.00071 J	0.00078 J	0.00082 J	0.00042 J	0.0026	0.0012	0.00033 J	0.00028 J	0.00028 J	0.00026 J
Fluoride	mg/L	0.22	0.16	0.19	0.21	1.8	1.7	1.3	1.4	0.25	0.27	0.85	0.84	0.84	0.63	0.75	0.58	0.65	1.2	1.4	0.56	0.66
Lead	mg/L	0.00016 J	4.1E-05 J	0.001 U	0.00011 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	8.3E-05 J	0.00012 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Lithium	mg/L	0.01 U	0.02 U	0.01 U	0.02 U	0.01 U	0.013 J	0.01 U	0.0091 J	0.01 U	0.02 U	0.01 U	0.01 U	0.0075 J	0.021 O	0.012 J	0.01 U	0.02 U	0.01 U	0.02 U	0.01 U	0.02 U
Mercury	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Molybdenum	mg/L	0.01	0.0095	0.0065	0.0059	0.065	0.057	0.011	0.014	0.031	0.043	0.015	0.015	0.016	0.012	0.006	0.053	0.042	0.01	0.012	0.013	0.016
Radium 226 + 228	pci/l	1.54 U	1.75 U	1.58 U	1.45 U	1.66 U	1.69	1.73 U	1.96	1.68 U	1.71 U	1.98 U	1.33 U	1.48 U	2.19	1.86 U	1.71 UJ	1.17 U	1.33 U	1.79 U	1.66 UJ	1.65 U
Selenium	mg/L	0.00072 J	0.00025 J	0.001 U	0.0002 J	0.017	0.0081	0.001 U	0.00044 J	0.005	0.0079	0.001 U	0.00024 J	0.0006 J	0.00073 J	0.00037 J	0.001 U	0.001 U	0.0016	0.0072	0.001 U	0.001 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	6.7E-05 J	0.00019 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	6.6E-05 J	0.001 U	0.001 U	0.001 U	0.001 U
Sample Parameters																						
Dissolved Oxygen	mg/L	0.55	0.43	0.47	0.18	1.16	0.38	0.38	0.21	6.71	3.61		0.12	0.18	0.46	0.27	0.04	0.81	3.99	2.63	0.16	0.34
Oxidation-Reduction Potential	millivolts	41.7	-74.5	-58.1	-92.2	178.7	107.1	-96.2	-30.9	105.5	55		-117.4	-68.6	-62.1	-16.4	-82.9	-8.9	-76.6	30.7	-126.5	-63
pH	SU	6.94	7.54	7	7.52	7.02	7.17	7.33	7.58	7.02	7.28		7.44	7.32	7.32	7.48	7.39	7.39	10.01	7.21	8.19	7.81
Specific Conductance	ms/cm	0.461	0.291	0.556	0.341	1.308	1.165	1.949	2.014	0.722	1.018		1.348	1.639	3.335	1.668	0.956	0.911	0.872	0.965	1.051	1.132
Temperature	deg c	10.82	15.6	13.08	12.5	11.01	17.6	13.59	14.3	11.58	19.33		14.24	16.13	13.4	17.5	12.8	24.8	7.5	19.08	11	13.7
Turbidity	ntu	3.38	2.39	4.44	6.8	1.61	0.81	2.99	3.67	3.49	1.14		4.71	1.89	4.61	4.85	17.89	4.84	2.61	0.56	4.48	1.34

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
FD = field duplicate
"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 is estimated.
"J-" = Indicates the result is estimated and potentially biased low.
"UJ" = Indicates the result is estimated and non-detect.
"O" = Indicates the result is an outlier.

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

Table 4: 2023 Analytical Data
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC R. M. Schahfer Generating Station
Wheatfield, Indiana

Sample Location		GAMW18			GAMW18B		GAMW46		GAMW46B		GAMW52			GAMW52B		GAMW53		GAMW53B		GAMW54		GAMW54B		GAMW55B		GAMW55R	
Sample Date		2023-04-19	2023-09-21		2023-04-20	2023-09-22	2023-04-27	2023-10-03	2023-04-27	2023-10-04	2023-04-25		2023-09-25	2023-04-25	2023-09-25	2023-04-24	2023-09-28	2023-04-24	2023-09-28	2023-04-26	2023-09-25	2023-04-26	2023-09-25	2023-04-26	2023-09-29	2023-04-26	2023-09-29
Sample Type		N	FD	N	N	N	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Chemical	Unit																										
CCR Appendix III																											
Boron	mg/L	3.5	5.6	5.4	11.3	11.5	0.1 U	0.036 J	0.049 J	0.037 J	0.1 U	0.062 J	3.5	0.14	0.1 U	0.083 J	0.11	5.8	4.7	0.58	0.8	4.1	5.7	7.4	7.6	0.88	0.014 J
Calcium	mg/L	480	398	395	332	354	32.7	28.2	51.8	53.2	63.6	64.9	160	92.5	64.1	28.9	42.4	225	199	145	128	192	221	191	191	169	1 U
Chloride	mg/L	44.6	70.4	70.7	138	133	2.1	2	6.9	5.9	42.8	43	70.3	199	97.8	2	2.7	130	123	26.2	17.8	121	129	120	124	33.5	40.6
Fluoride	mg/L	0.12	0.13	0.13	1.1	0.98	0.062 J	0.05 U	0.052 J	0.05 U	0.41	0.41	0.42	0.92	0.71	0.05 U	0.053 J	0.44	0.39	0.35	0.35	0.55	0.33	0.3	0.24	0.61	0.75
pH	SU	7.3 J	7.1 J	7.2 J	7.3 J	6.1 J	7.7 J	7.6 J	7.6 J	8 J	7.9 J	7.9 J	7.2 J	7.8 J	7.1 J	6.2 J	7 J	7.3 J	7.3 J	7.1 J	7.9 J	7.4 J	7.5 J	7.5 J	7.2 J	7.6 J	7.3 J
Sulfate	mg/L	1230	958	967	705	1110	36.5	28.4	65.3	53.2	59.1	56.4	65.5	62.8	82.3	37.2	44.3	524	498	273	192	465	500	522	508	342	368
Total Dissolved Solids	mg/L	2060	1810	1810	1990	2090	149	96	202	193	278	279	379	540	459	147	211	1300	1280	705	562	1070	1210	1170	1190	765	806
CCR Appendix IV																											
Antimony	mg/L	0.00012 J	0.00012 J	0.00012 J	0.001 U	0.001 U	0.00012 J	0.00017 J	5.3E-05 J	0.001 U	0.00015 J	0.00015 J	0.001 U	7.2E-05 J	0.001 U	0.00031 J	0.00064 J	0.001 U	0.001 U	0.00055 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00012 J	0.001 U
Arsenic	mg/L	0.00095 J	0.00084 J	0.00082 J	0.0021	0.0027	0.00033 J	0.00045 J	0.00051 J	0.00061 J	0.00015 J	0.00015 J	0.00017 J	0.0005 J	0.00061 J	0.0011	0.0012	0.0008 J	0.00089 J	0.0094	0.015	0.0036	0.0038	0.00023 J	0.00018 J	0.00024 J	0.001 U
Barium	mg/L	0.04	0.036	0.036	0.03	0.027	0.0082	0.0043	0.025	0.023	0.012	0.012	0.014	0.11	0.084	0.016	0.028	0.084	0.071	0.059	0.053	0.065	0.08	0.055	0.054	0.027	0.00044 J
Beryllium	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	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Cadmium	mg/L	9.1E-05 J	0.00011 J	0.0001 J	1.7E-05 J	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	1.1E-05 J	0.0002 U	1.6E-05 J	0.0002 U	0.0002 U	2.7E-05 J	2.8E-05 J	1.7E-05 J	0.0002 U	2.8E-05 J	2.6E-05 J	0.0002 U	0.0002 U	0.0002 U	0.0002 U	2.1E-05 J	0.0002 U
Chromium	mg/L	0.002 U	0.002 U	0.002 U	0.002 U	0.00029 J	0.00034 J	0.00047 J	0.00027 J	0.00025 J	0.00025 J	0.00027 J	0.002 U	0.00032 J	0.002 U	0.0012 J	0.0013 J	0.00024 J	0.00024 J	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.00024 J	0.002 U	0.00028 J
Cobalt	mg/L	0.00096 J	0.00068 J	0.00066 J	0.00044 J	0.00044 J	0.00013 J	6.3E-05 J	5.1E-05 J	8.1E-05 J	0.00011 J	0.00011 J	0.00011 J	7.7E-05 J	6E-05 J	0.00038 J	0.00051 J	0.00018 J	0.00022 J	0.00065 J	0.00068 J	0.00017 J	0.00019 J	0.00017 J	0.00021 J	0.00024 J	0.001 U
Fluoride	mg/L	0.12	0.13	0.13	1.1	0.98	0.062 J	0.05 U	0.052 J	0.05 U	0.41	0.41	0.42	0.92	0.71	0.05 U	0.053 J	0.44	0.39	0.35	0.35	0.55	0.33	0.3	0.24	0.61	0.75
Lead	mg/L	0.00068 J	0.00024 J	0.00021 J	0.001 U	0.001 U	5.3E-05 J	6.5E-05 J	4.2E-05 J	0.001 U	0.001 U	0.001 U	0.001 U	3.6E-05 J	0.001 U	0.00063 J	0.00048 J	0.001 U	2.4E-05 J	0.00011 J	0.001 U	6.2E-05 J	0.001 U	3.6E-05 J	2.2E-05 J	0.001 U	2.6E-05 J
Lithium	mg/L	0.01 U	0.02 U	0.02 U	0.021	0.021	0.01 U	0.02 U	0.01 U	0.02 U	0.01 U	0.01 U	0.0073 J	0.01 U	0.02 U	0.01 U	0.02 U	0.01 U	0.02 U	0.01 U	0.02 U	0.01 U	0.0065 J	0.01 U	0.02 U	0.01 U	0.02 U
Mercury	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Molybdenum	mg/L	0.16	0.18	0.18	0.0097	0.015	0.00047 J	0.00065 J	0.0024	0.0023	0.0036	0.0037	0.0044	0.0046	0.012	0.0056	0.015	0.0077	0.0065	0.016	0.04	0.023	0.0092	0.0063	0.0065	0.022	0.001 U
Radium 226 + 228	pci/l	1.42 U	1.8	1.85 U	2.31 J-	2.09	1.68 U	1.98 U	2.04 U	1.97 U	1.76 UJ	1.84 UJ	1.83 U	1.56 J	1.85 U	1.81 U	1.52 U	2.16 U	1.78 U	1.36 U	2.03 U	1.45	2.59	2.21	1.8 U	1.59 U	2.19 U
Selenium	mg/L	0.063	0.049	0.05	0.001 U	0.00024 J	0.001 U	0.001 U	0.001 U	0.001 U	0.00086 J	0.00069 J	0.00031 J	0.001 U	0.001 U	0.00075 J	0.00086 J	0.00024 J	0.001 U	0.0035	0.00055 J	0.001 U	0.001 U	0.00023 J	0.001 U	0.0068	0.001 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	5.8E-05 J	5.9E-05 J	0.00014 J	0.001 U	0.001 U	4.2E-05 J	6.7E-05 J	0.001 U	0.001 U	0.00011 J	0.00012 J	0.001 U	0.001 U	0.001 U	0.001 U	9.3E-05 J	0.001 U
Sample Parameters																											
Dissolved Oxygen	mg/L	6.55		2.39	0.13	0.27	2.67	2.46	0.17	0.29		1.81	0.36	0.14	0.12	2.63	0.29	0.09	0.12	0.16	0.31	0.09	0.19	0.08	0.21	2.18	0.7
Oxidation-Reduction Potential	millivolts	27.3		53.6	-91.6	-40.5	-163.6	48.9	-233.6	-102.7		-164.1	35.1	-110.8	-109.9	96.8	54.5	-81.9	-77.2	3.7	51.2	-78.5	-2.1	-77.1	-74.6	23.6	43.3
pH	SU	7.04		6.96	6.99	7.31	11.82	8.68	10.45	8.4		12.38	7.58	7.83	7.72	6.22	6.46	7.42	7.37	6.92	6.74	7.39	7.22	7.46	7.52	7.41	7.47
Specific Conductance	ms/cm	1.704		1.771	1.856	1.91	0.182	0.146	0.261	0.196		0.402	0.584	0.71	0.675	0.184	0.264	1.657	1.404	0.727	0.775	1.251	1.425	1.427	1.379	0.801	0.974
Temperature	deg c	12.46		19.58	14.3	15.94	8.5	14.7	10	11.2		10.1	19.69	13.7	17.52	10.8	19.06	16.4	19.15	10.5	18.7	14.4	16.9	16.7	17.9	11.8	20.47
Turbidity	ntu	2.63		4.2	4.13	4.1	1.65	2.67	4.38	3.52		2.25	0.72	0.92	0.51	6.57	4.06	2.64	2.13	3.61	3.65	3.85	3.92	3.75	4.31	0.96	1.15

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
FD = field duplicate
"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 is estimated.
"J-" = Indicates the result is estimated and potentially biased low.
"UJ" = Indicates the result is estimated and non-detect.
"O" = Indicates the result is an outlier.

Table 4: 2023 Analytical Data
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC R. M. Schahfer Generating Station
Wheatfield, Indiana

Sample Location		GAMW56			GAMW56B		GAMW68		GAMW68B			
Sample Date		2023-04-21	2023-09-22		2023-04-21	2023-09-25	2023-05-01	2023-10-02	2023-05-01		2023-10-02	
Sample Type		N	FD	N	N	N	N	N	FD	N	FD	N
Chemical	Unit											
CCR Appendix III												
Boron	mg/L	0.29	0.35	0.36	3.1	0.21	0.1 U	0.06 J	0.1 U	0.1 U	0.034 J	0.041 J
Calcium	mg/L	118	101	100	180	62.2	62.4	63.9	48.4	47	41.4	41.4
Chloride	mg/L	7.5	12.5	12.5	67.9	58.4	19.5	18.7	14.4	14.6	12.9	13
Fluoride	mg/L	0.47	0.68	0.67	0.46	0.44	0.2	0.18	0.18	0.17	0.17	0.17
pH	SU	7.2 J	6.8 J	6.8 J	7.4 J	7.3 J	8.2 J	7.4 J	6.8 J	6.9 J	7.3 J	7.5 J
Sulfate	mg/L	63.9	66.5	65.8	330	368	64	63.6	70.8	71	46.7	46.7
Total Dissolved Solids	mg/L	478	391	435	903	924	260	282	202	229	205	203
CCR Appendix IV												
Antimony	mg/L	0.00017 J	0.00014 J	0.00015 J	0.001 U	0.001 U	0.001 U	0.00019 J	0.001 U	0.001 U	0.001 U	0.001 U
Arsenic	mg/L	0.0012	0.00087 J	0.00091 J	0.0012	0.00049 J	0.003	0.00097 J	0.00023 J	0.00024 J	0.00029 J	0.00031 J
Barium	mg/L	0.045	0.032	0.033	0.079	0.082	0.1	0.1	0.098	0.099	0.084	0.082
Beryllium	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	0.0002 U
Cadmium	mg/L	3.9E-05 J	2.8E-05 J	3E-05 J	0.0002 U	0.0002 U	0.0002 U	0.0002 U	1.4E-05 J	0.0002 U	0.0002 U	0.0002 U
Chromium	mg/L	0.00028 J	0.0003 J	0.00033 J	0.0004 J	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Cobalt	mg/L	0.0082	0.0023	0.0023	0.00026 J	0.00017 J	0.00065 J	0.00053 J	4.3E-05 J	4.4E-05 J	4.7E-05 J	4.6E-05 J
Fluoride	mg/L	0.47	0.68	0.67	0.46	0.44	0.2	0.18	0.18	0.17	0.17	0.17
Lead	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 J	0.001 U	4.9E-05 J	4E-05 J	0.001 U	0.001 U
Lithium	mg/L	0.01 U	0.02 U	0.02 U	0.01 U	0.02 U	0.01 U	0.0069 J	0.01 U	0.01 U	0.0067 J	0.0067 J
Mercury	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Molybdenum	mg/L	0.0077	0.0095	0.0097	0.011	0.0092	0.0033	0.004	0.0021	0.0021	0.0024	0.0023
Radium 226 + 228	pci/l	1.74 U	1.38 U	1.31 U	2.07 U	2.43	1.49 U	1.53 U	1.13	1.24 U	1.69 U	1.91
Selenium	mg/L	0.0018	0.00079 J	0.00078 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Thallium	mg/L	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Sample Parameters												
Dissolved Oxygen	mg/L	1.01		0.38	0.27	0.28	0.24	0.25		0.05		0.2
Oxidation-Reduction Potential	millivolts	-96.3		42.5	-69.9	-62.5	-117.8	-52.4		-193.7		-105.2
pH	SU	9.41		6.98	7.36	7.39	8.83	7.97		9.36		8.08
Specific Conductance	ms/cm	0.449		0.52	0.825	1.041	0.297	0.322		0.271		0.228
Temperature	deg c	8.9		17.74	11.8	15.42	8.2	14.8		9.9		12.9
Turbidity	ntu	1.99		0.63	29.53	3.84	7.89	2.12		4.03		3.71

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
FD = field duplicate
"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 is estimated.
"J-" = Indicates the result is estimated and potentially biased low.
"UJ" = Indicates the result is estimated and non-detect.
"O" = Indicates the result is an outlier.

Table 5: Groundwater Protection Standards
CCR Unit Schahfer MSRB, MCWB, and Drying Area
NIPSCO LLC Rollin M. Schahfer Generating Station
Wheatfield, Indiana

Analyte	MCL (mg/L)	GWPS (mg/L)[2]	GWPS (mg/L)[3]	GWPS (mg/L)[4]	GWPS (mg/L)[5]
Antimony	0.006	0.006	0.006	0.006	0.006
Arsenic	0.01	0.078	0.091	0.091	0.019
Barium	2	2	2	2	2
Beryllium	0.004	0.004	0.004	0.004	0.004
Cadmium	0.005	0.005	0.005	0.005	0.005
Chromium	0.1	0.1	0.1	0.1	0.1
Cobalt[1]	0.006	0.01	0.01	0.01	0.015
Fluoride	4	4	4	4	4
Lead[1]	0.015	0.015	0.015	0.015	0.015
Lithium[1]	0.04	0.04	0.04	0.04	0.04
Mercury	0.002	0.002	0.002	0.002	0.002
Molybdenum[1]	0.1	0.1	0.1	0.1	0.1
Radium 226+228	5	5	5	5	5
Selenium	0.05	0.05	0.05	0.05	0.05
Thallium	0.002	0.002	0.002	0.002	0.002

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 August 2018.

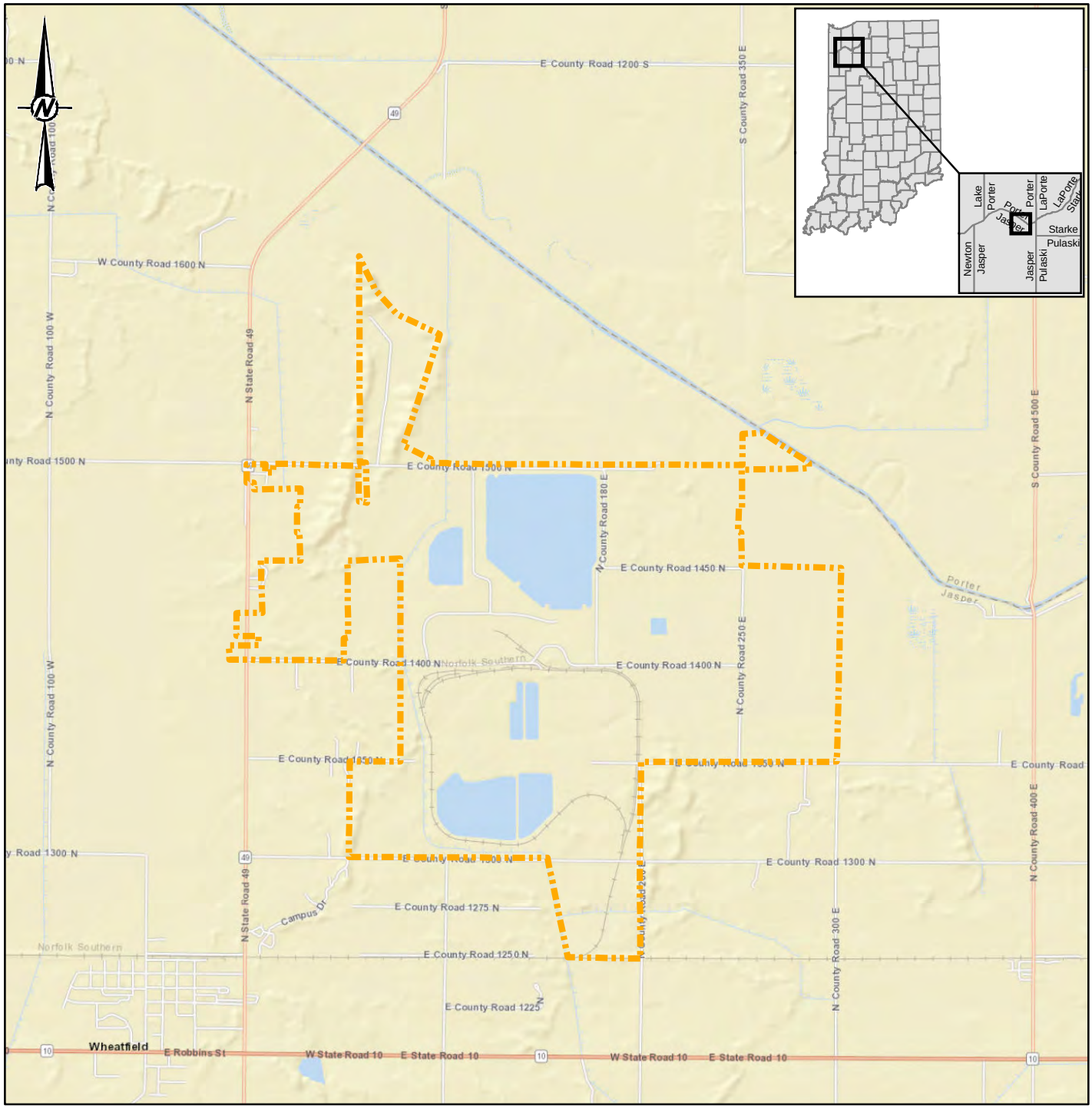
3) GWPS calculated in March 2020.

4) GWPS calcualted in September 2022.

5) GWPS calculated in August 2023.

Prepared by: GRD
Checked by: DFSC
Review by: MAH

FIGURES



LEGEND

Approximate Property Line

0 0.75 1.5

1 " = 0.75 miles Miles

REFERENCE(S)

SERVICE LAYER CREDITS: SOURCES: ESRI, HERE, GARMIN, USGS, INTERMAP, INCREMENT P, NRCAN, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), ESRI KOREA, ESRI (THAILAND), NGCC, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY

CLIENT

NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT

R.M. SCHAHFER GENERATING STATION
WHEATFIELD, INDIANA

TITLE

SITE LOCATION MAP

CONSULTANT

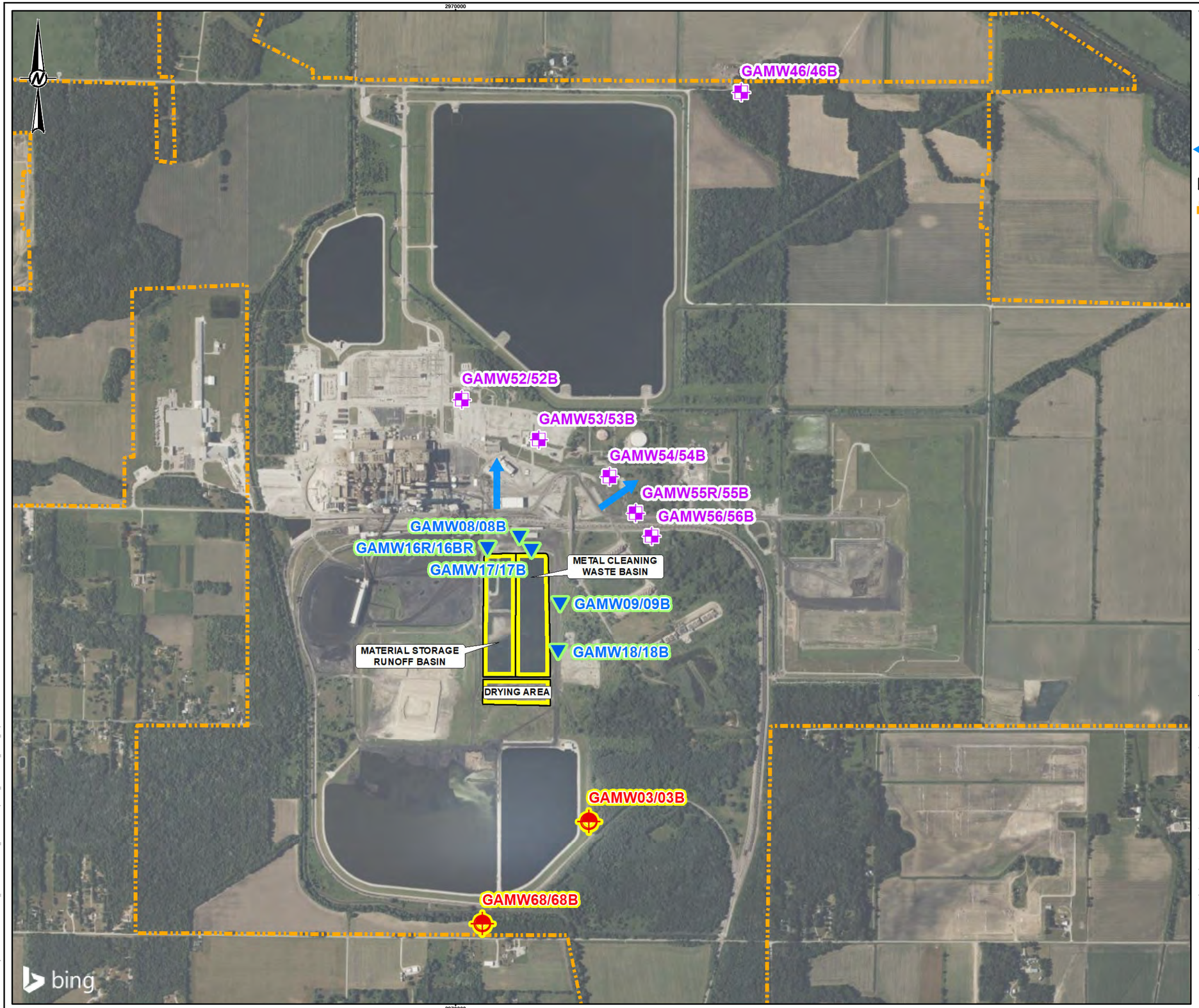
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YYYY-MM-DD	1/04/2021
DESIGNED	DFSC
PREPARED	SHL
REVIEWED	DFSC
APPROVED	MAH

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



LEGEND

- Assessment Monitoring Well
- Background Monitoring Well
- Downgradient Monitoring Well
- Generalized Groundwater Flow Direction
- CCR Units
- Approximate Property Line

0 1,200 2,400

1 " = 1,200 feet Feet

NOTE(S)

REFERENCE(S)

1. SERVICE LAYER CREDITS: © 2024 MICROSOFT CORPORATION © 2023 MAXAR ©CNES (2023) DISTRIBUTION AIRBUS DS

CLIENT

NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT

R.M. SCHAHFER GENERATING STATION
WHEATFIELD, INDIANA

TITLE

WELL LOCATION MAP
MATERIAL STORAGE RUNOFF BASIN, METAL CLEANING WASTE BASIN, AND DRYING AREA

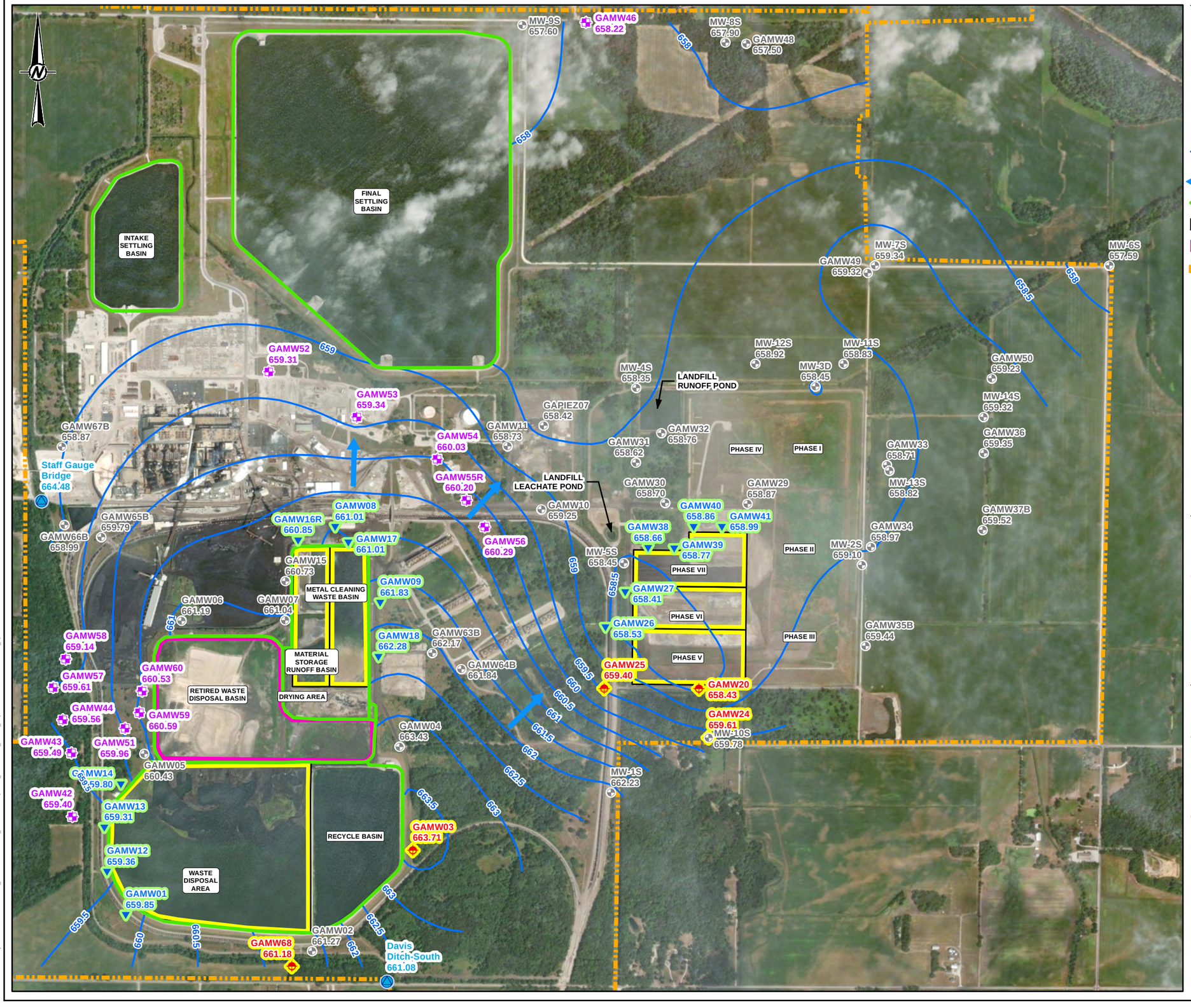
CONSULTANT

wsp

YYYY-MM-DD	1/17/2024
DESIGNED	DFS
PREPARED	SHL
REVIEWED	DFS
APPROVED	MAH

PROJECT NO.	CONTROL	REV.	FIGURE
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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
- Surface Water Location
- April 2023 Groundwater Elevation Contours (0.5 ft interval)
- Generalized Groundwater Flow Direction
- Slurry Wall
- CCR Units
- Inactive Retired Waste Disposal Basin
- Approximate Property Line

0 1,000 2,000
Feet

NOTE(S)

1. THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION SCREENED 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 ON APRIL 11, 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.

REFERENCE(S)

1. SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY

CLIENT

NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT

R.M. SCHAHFER GENERATING STATION
WHEATFIELD, INDIANA

TITLE

APRIL 2023 GROUNDWATER ELEVATION CONTOURS

CONSULTANT

wsp

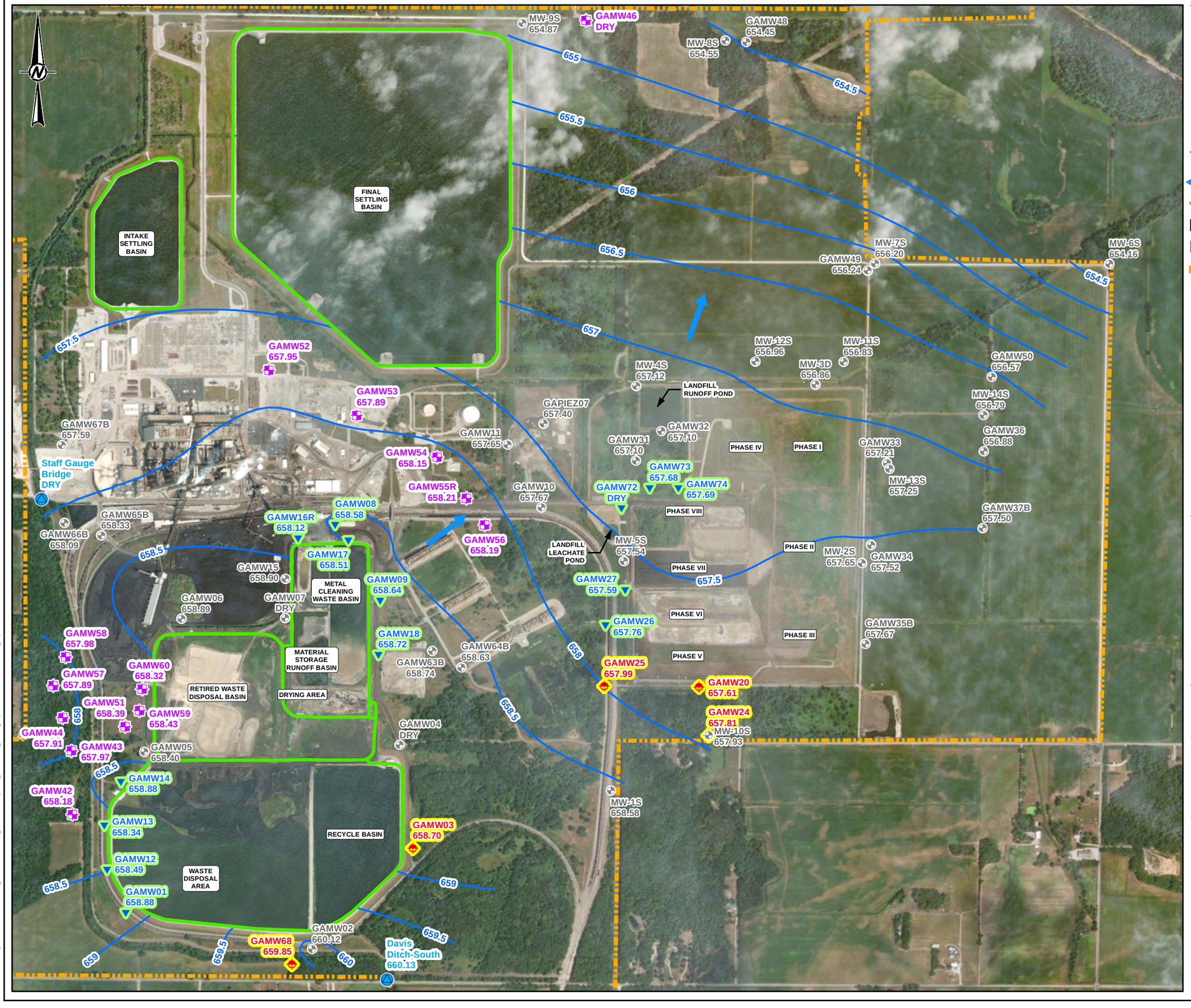
YYYY-MM-DD	2024-01-18
DESIGNED	DFSC
PREPARED	SHL
REVIEWED	TDH
APPROVED	MAH

PROJECT NO.	CONTROL	REV.	FIGURE
31406779.023	A	0	3

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

0 25mm

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LEGEND

- Assessment Monitoring Well
- Background Monitoring Well
- Downgradient Monitoring Well
- Non-CCR Well
- Surface Water Location
- September 2023 Groundwater Elevation Contour (0.5ft interval)
- Generalized Groundwater Flow Direction
- Slurry Wall
- CCR Units
- Inactive Retired Waste Disposal Basin
- Approximate Property Line

0 1,000 2,000
Feet

NOTE(S)

1. THIS FIGURE DEPICTS THE GROUNDWATER ELEVATION SCREENED 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 ON SEPTEMBER 6, 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.

2. 'DRY' INDICATES WATER LEVEL WAS BELOW TOP OF PUMP AND NOT MEASURABLE.

REFERENCE(S)

1. SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY

CLIENT

NORTHERN INDIANA PUBLIC SERVICE COMPANY LLC

PROJECT

R.M. SCHAHFER GENERATING STATION
WHEATFIELD, INDIANA

TITLE

SEPTEMBER 2023 GROUNDWATER ELEVATION CONTOURS

CONSULTANT

wsp

YYYY-MM-DD	2024-01-18
DESIGNED	DFSC
PREPARED	SHL
REVIEWED	TDH
APPROVED	MAH

PROJECT NO.	CONTROL	REV.	FIGURE
31406779.023	A	0	4

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

0 25mm

PATH: V:\001 GIS Projects\NIPSCO\Schahfer\99_PROJ\31 404789011_2023AnnualReport\40_PROD\001_Landfill_Report\21508844-0004-HS-0002_Sept2023GWE.mxd PRINTED ON: 2024-01-18 AT: 12:56:49 PM

APPENDIX A

April/May 2023 Analytical Laboratory Report

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

May 23, 2023

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

RE: Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between April 13, 2023 and May 02, 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
tina.sayer@pacelabs.com
(317)228-3100
Project Manager

Enclosures

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

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

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

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50341962001	**GAMW-14-041223**	Water	04/12/23 13:40	04/13/23 08:55
50341962002	**GAMW-14B-041223**	Water	04/12/23 13:25	04/13/23 08:55
50342144001	**GAMW-01-041323**	Water	04/13/23 11:35	04/14/23 09:00
50342144002	**GAMW-01B-041323**	Water	04/13/23 12:50	04/14/23 09:00
50342290001	**GAMW-03-041423**	Water	04/14/23 13:05	04/17/23 08:00
50342290002	**GAMW-03B-041423**	Water	04/14/23 14:30	04/17/23 08:00
50342290003	**GAMW-12-041423**	Water	04/14/23 12:00	04/17/23 08:00
50342290004	**GAMW-12B-041423**	Water	04/14/23 14:30	04/17/23 08:00
50342290005	**GAMW-13-041423**	Water	04/14/23 09:45	04/17/23 08:00
50342290006	**GAMW-13B-041423**	Water	04/14/23 11:50	04/17/23 08:00
50342402001	**GAMW-51-041523**	Water	04/15/23 15:45	04/18/23 09:00
50342402002	**GAMW-51B-041523**	Water	04/15/23 16:50	04/18/23 09:00
50342402003	**GAMW-59-041523**	Water	04/15/23 18:10	04/18/23 09:00
50342402004	**GAMW-59B-041523**	Water	04/15/23 19:05	04/18/23 09:00
50342608001	**GAMW-09-041923**	Water	04/19/23 10:20	04/20/23 09:10
50342608002	**GAMW-09B-041923**	Water	04/19/23 12:05	04/20/23 09:10
50342608003	**GAMW-17-041923**	Water	04/19/23 13:40	04/20/23 09:10
50342608004	**GAMW-18-041923**	Water	04/19/23 13:40	04/20/23 09:10
50342608005	**FD-01-041923**	Water	04/19/23 12:00	04/20/23 09:10
50342608006	**FB-01-041923**	Water	04/19/23 13:45	04/20/23 09:10
50342776001	**GAMW-17B-042023**	Water	04/20/23 10:25	04/21/23 09:10
50342776002	**GAMW-18B-042023**	Water	04/20/23 10:05	04/21/23 09:10
50342776003	**GAMW-60-042023**	Water	04/20/23 11:15	04/21/23 09:10
50342776004	**GAMW-60B-042023**	Water	04/20/23 12:25	04/21/23 09:10
50342776005	**GAMW-16R-042023**	Water	04/20/23 13:55	04/21/23 09:10
50342776006	**FD-02-042023**	Water	04/20/23 12:00	04/21/23 09:10
50342776007	**FB-02-042023**	Water	04/20/23 12:30	04/21/23 09:10
50342909001	**GAMW-08-042123**	Water	04/21/23 09:55	04/22/23 09:15
50342909002	**GAMW-08B-042123**	Water	04/21/23 10:50	04/22/23 09:15
50342909003	**GAMW-16BR-042123**	Water	04/21/23 09:40	04/22/23 09:15
50342912001	**GAMW-56-042123**	Water	04/21/23 10:55	04/22/23 09:15
50342912002	**GAMW-56B-042123**	Water	04/21/23 13:30	04/22/23 09:15
50343032001	**GAMW-53-042423**	Water	04/24/23 11:05	04/25/23 09:00
50343032002	**GAMW-53B-042423**	Water	04/24/23 12:50	04/25/23 09:00
50343172001	**GAMW-52-042523**	Water	04/25/23 09:25	04/26/23 09:05
50343172002	**GAMW-52B-042523**	Water	04/25/23 11:10	04/26/23 09:05
50343172003	**FD-03-042523**	Water	04/25/23 12:00	04/26/23 09:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50343254001	**GAMW-55B-042623**	Water	04/26/23 13:55	04/27/23 08:55
50343254002	**FB-03-042623**	Water	04/26/23 11:30	04/27/23 08:55
50343255001	**GAMW-54-042623**	Water	04/26/23 10:05	04/27/23 08:55
50343255002	**GAMW-54B-042623**	Water	04/26/23 11:20	04/27/23 08:55
50343255003	**GAMW-55R-042623**	Water	04/26/23 12:35	04/27/23 08:55
50343612001	**GAMW-68-050123**	Water	05/01/23 12:25	05/02/23 09:20
50343612002	**GAMW-68B-050123**	Water	05/01/23 14:40	05/02/23 09:20
50343612003	**FB-04-050123**	Water	05/01/23 14:45	05/02/23 09:20
50343612004	**FD-04-050123**	Water	05/01/23 12:00	05/02/23 09:20

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50341962001	**GAMW-14-041223**	EPA 9056	RMR	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50341962002	**GAMW-14B-041223**	EPA 9056	RMR	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342144001	**GAMW-01-041323**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342144002	**GAMW-01B-041323**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342290001	**GAMW-03-041423**	EPA 9056	RMR	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342290002	**GAMW-03B-041423**	EPA 9056	RMR	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342290003	**GAMW-12-041423**	EPA 9056	RMR	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342290004	**GAMW-12B-041423**	EPA 9056	RMR	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342290005	**GAMW-13-041423**	EPA 9056	RMR	3	PASI-I
		EPA 6010	MTM	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	BMS	1	PASI-I
50342290006	**GAMW-13B-041423**	EPA 9056	RMR	3	PASI-I
		EPA 6010	MTM	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	BMS	1	PASI-I
50342402001	**GAMW-51-041523**	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	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342402002	**GAMW-51B-041523**	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	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342402003	**GAMW-59-041523**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	DMT	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342402004	**GAMW-59B-041523**	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	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342608001	**GAMW-09-041923**	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	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50342608002	**GAMW-09B-041923**	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	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50342608003	**GAMW-17-041923**	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	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50342608004	**GAMW-18-041923**	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	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50342608005	**FD-01-041923**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50342608006	**FB-01-041923**	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	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50342776001	**GAMW-17B-042023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342776002	**GAMW-18B-042023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342776003	**GAMW-60-042023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342776004	**GAMW-60B-042023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342776005	**GAMW-16R-042023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342776006	**FD-02-042023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342776007	**FB-02-042023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342909001	**GAMW-08-042123**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342909002	**GAMW-08B-042123**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342909003	**GAMW-16BR-042123**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50342912001	**GAMW-56-042123**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	BMS	1	PASI-I
50342912002	**GAMW-56B-042123**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	DMT	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343032001	**GAMW-53-042423**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343032002	**GAMW-53B-042423**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343172001	**GAMW-52-042523**	EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343172002	**GAMW-52B-042523**	EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343172003	**FD-03-042523**	EPA 9056	ADM	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50343254001	**GAMW-55B-042623**	EPA 9056	RMR	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343254002	**FB-03-042623**	EPA 9056	RMR	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343255001	**GAMW-54-042623**	EPA 9056	RMR	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343255002	**GAMW-54B-042623**	EPA 9056	RMR	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343255003	**GAMW-55R-042623**	EPA 9056	RMR	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343612001	**GAMW-68-050123**	EPA 9056	RMR	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343612002	**GAMW-68B-050123**	EPA 9056	RMR	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343612003	**FB-04-050123**	EPA 9056	RMR	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343612004	**FD-04-050123**	EPA 9056	RMR	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50341962001	**GAMW-14-041223**					
EPA 9056	Chloride	3.0	mg/L	0.25	04/23/23 03:48	
EPA 9056	Fluoride	0.16	mg/L	0.050	04/23/23 03:48	
EPA 9056	Sulfate	41.7	mg/L	0.25	04/23/23 03:48	
EPA 6010	Boron	0.12	mg/L	0.10	04/24/23 14:04	
EPA 6010	Calcium	57.3	mg/L	1.0	04/24/23 14:04	
EPA 6020	Antimony	0.00022J	mg/L	0.0010	04/18/23 19:04	
EPA 6020	Arsenic	0.0093	mg/L	0.0010	04/18/23 19:04	
EPA 6020	Barium	0.045	mg/L	0.0010	04/18/23 19:04	
EPA 6020	Beryllium	0.000033J	mg/L	0.00020	04/18/23 19:04	
EPA 6020	Cadmium	0.000031J	mg/L	0.00020	04/18/23 19:04	
EPA 6020	Chromium	0.00096J	mg/L	0.0020	04/18/23 19:04	
EPA 6020	Cobalt	0.012	mg/L	0.0010	04/18/23 19:04	
EPA 6020	Lead	0.00025J	mg/L	0.0010	04/18/23 19:04	
EPA 6020	Molybdenum	0.0056	mg/L	0.0010	04/18/23 19:04	
EPA 6020	Selenium	0.00055J	mg/L	0.0010	04/18/23 19:04	
EPA 6020	Thallium	0.000057J	mg/L	0.0010	04/18/23 19:04	
SM 2540C	Total Dissolved Solids	201	mg/L	10.0	04/18/23 08:25	
SM 4500-H+B	pH at 25 Degrees C	8.8	Std. Units	0.10	04/26/23 14:25	H3
50341962002	**GAMW-14B-041223**					
EPA 9056	Chloride	108	mg/L	2.5	04/23/23 04:35	
EPA 9056	Sulfate	922	mg/L	25.0	04/25/23 09:19	
EPA 6010	Boron	2.4	mg/L	0.10	04/24/23 14:11	
EPA 6010	Calcium	175	mg/L	1.0	04/24/23 14:11	
EPA 6020	Antimony	0.000072J	mg/L	0.0010	04/18/23 19:07	
EPA 6020	Arsenic	0.00040J	mg/L	0.0010	04/18/23 19:07	
EPA 6020	Barium	0.064	mg/L	0.0010	04/18/23 19:07	
EPA 6020	Beryllium	0.000038J	mg/L	0.00020	04/18/23 19:07	
EPA 6020	Chromium	0.00090J	mg/L	0.0020	04/18/23 19:07	
EPA 6020	Cobalt	0.00026J	mg/L	0.0010	04/18/23 19:07	
EPA 6020	Lead	0.000038J	mg/L	0.0010	04/18/23 19:07	
EPA 6020	Molybdenum	0.028	mg/L	0.0010	04/18/23 19:07	
EPA 6020	Selenium	0.00029J	mg/L	0.0010	04/18/23 19:07	
SM 2540C	Total Dissolved Solids	3420	mg/L	40.0	04/18/23 08:26	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/26/23 14:22	H3
50342144001	**GAMW-01-041323**					
EPA 9056	Chloride	14.8	mg/L	0.25	04/26/23 16:17	
EPA 9056	Fluoride	0.34	mg/L	0.050	04/26/23 16:17	
EPA 9056	Sulfate	152	mg/L	2.5	04/26/23 16:32	
EPA 6010	Boron	1.0	mg/L	0.10	04/26/23 10:37	
EPA 6010	Calcium	97.3	mg/L	1.0	04/26/23 10:37	
EPA 6020	Antimony	0.00015J	mg/L	0.0010	04/18/23 19:11	
EPA 6020	Arsenic	0.0066	mg/L	0.0010	04/18/23 19:11	
EPA 6020	Barium	0.062	mg/L	0.0010	04/18/23 19:11	
EPA 6020	Cadmium	0.000025J	mg/L	0.00020	04/18/23 19:11	
EPA 6020	Chromium	0.00044J	mg/L	0.0020	04/18/23 19:11	
EPA 6020	Cobalt	0.0027	mg/L	0.0010	04/18/23 19:11	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342144001	**GAMW-01-041323**					
EPA 6020	Molybdenum	0.018	mg/L	0.0010	04/18/23 19:11	
EPA 6020	Selenium	0.011	mg/L	0.0010	04/18/23 19:11	
EPA 6020	Thallium	0.000096J	mg/L	0.0010	04/18/23 19:11	
SM 2540C	Total Dissolved Solids	471	mg/L	10.0	04/19/23 08:39	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/26/23 13:06	H3
50342144002	**GAMW-01B-041323**					
EPA 9056	Chloride	23.9	mg/L	0.25	04/26/23 17:04	
EPA 9056	Fluoride	0.17	mg/L	0.050	04/26/23 17:04	
EPA 9056	Sulfate	66.1	mg/L	2.5	04/26/23 17:23	
EPA 6010	Boron	0.34	mg/L	0.10	04/26/23 10:42	
EPA 6010	Calcium	107	mg/L	1.0	04/26/23 10:42	
EPA 6020	Antimony	0.000080J	mg/L	0.0010	04/18/23 19:20	
EPA 6020	Arsenic	0.00030J	mg/L	0.0010	04/18/23 19:20	
EPA 6020	Barium	0.19	mg/L	0.0020	04/19/23 18:11	
EPA 6020	Chromium	0.00045J	mg/L	0.0020	04/18/23 19:20	
EPA 6020	Cobalt	0.00024J	mg/L	0.0010	04/18/23 19:20	
EPA 6020	Lead	0.000040J	mg/L	0.0010	04/18/23 19:20	
EPA 6020	Molybdenum	0.0011	mg/L	0.0010	04/18/23 19:20	
SM 2540C	Total Dissolved Solids	472	mg/L	10.0	04/19/23 08:42	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	04/27/23 08:27	H3
50342290001	**GAMW-03-041423**					
EPA 9056	Chloride	2.8	mg/L	0.25	04/29/23 00:55	
EPA 9056	Fluoride	0.22	mg/L	0.050	04/29/23 00:55	
EPA 9056	Sulfate	101	mg/L	2.5	04/29/23 01:14	
EPA 6010	Boron	0.25	mg/L	0.10	04/26/23 12:30	
EPA 6010	Calcium	95.4	mg/L	1.0	04/26/23 12:30	
EPA 6020	Antimony	0.00056J	mg/L	0.0010	04/26/23 08:22	
EPA 6020	Arsenic	0.0027	mg/L	0.0010	04/26/23 08:22	
EPA 6020	Barium	0.082	mg/L	0.0010	04/26/23 08:22	
EPA 6020	Cadmium	0.000070J	mg/L	0.00020	04/26/23 08:22	
EPA 6020	Chromium	0.00039J	mg/L	0.0020	04/26/23 08:22	
EPA 6020	Cobalt	0.0015	mg/L	0.0010	04/26/23 08:22	
EPA 6020	Lead	0.00016J	mg/L	0.0010	04/26/23 08:22	
EPA 6020	Molybdenum	0.010	mg/L	0.0010	04/26/23 08:22	
EPA 6020	Selenium	0.00072J	mg/L	0.0010	04/26/23 08:22	
SM 2540C	Total Dissolved Solids	403	mg/L	10.0	04/19/23 16:52	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/27/23 08:49	H3
50342290002	**GAMW-03B-041423**					
EPA 9056	Chloride	25.0	mg/L	2.5	04/29/23 01:53	
EPA 9056	Fluoride	0.19	mg/L	0.050	04/29/23 01:34	
EPA 9056	Sulfate	111	mg/L	2.5	04/29/23 01:53	
EPA 6010	Boron	0.35	mg/L	0.10	04/26/23 12:33	
EPA 6010	Calcium	102	mg/L	1.0	04/26/23 12:33	
EPA 6020	Antimony	0.000086J	mg/L	0.0010	04/26/23 08:49	
EPA 6020	Arsenic	0.00043J	mg/L	0.0010	04/26/23 08:49	
EPA 6020	Barium	0.11	mg/L	0.0010	04/26/23 08:49	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342290002	**GAMW-03B-041423**					
EPA 6020	Chromium	0.00044J	mg/L	0.0020	04/26/23 08:49	
EPA 6020	Cobalt	0.00041J	mg/L	0.0010	04/26/23 08:49	
EPA 6020	Molybdenum	0.0065	mg/L	0.0010	04/26/23 08:49	
SM 2540C	Total Dissolved Solids	465	mg/L	10.0	04/19/23 16:53	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	04/27/23 08:49	H3
50342290003	**GAMW-12-041423**					
EPA 9056	Chloride	3.7	mg/L	0.25	04/29/23 02:13	
EPA 9056	Fluoride	0.19	mg/L	0.050	04/29/23 02:13	
EPA 9056	Sulfate	15.6	mg/L	0.25	04/29/23 02:13	
EPA 6010	Boron	0.062J	mg/L	0.10	04/26/23 12:35	
EPA 6010	Calcium	87.9	mg/L	1.0	04/26/23 12:35	
EPA 6020	Antimony	0.00010J	mg/L	0.0010	04/26/23 08:53	
EPA 6020	Arsenic	0.010	mg/L	0.0010	04/26/23 08:53	
EPA 6020	Barium	0.087	mg/L	0.0010	04/26/23 08:53	
EPA 6020	Chromium	0.00043J	mg/L	0.0020	04/26/23 08:53	
EPA 6020	Cobalt	0.0022	mg/L	0.0010	04/26/23 08:53	
EPA 6020	Molybdenum	0.0046	mg/L	0.0010	04/26/23 08:53	
EPA 6020	Selenium	0.00038J	mg/L	0.0010	04/26/23 08:53	
SM 2540C	Total Dissolved Solids	345	mg/L	10.0	04/19/23 16:53	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	04/27/23 08:48	H3
50342290004	**GAMW-12B-041423**					
EPA 9056	Chloride	23.9	mg/L	2.5	04/29/23 03:11	
EPA 9056	Fluoride	0.094J	mg/L	0.050	04/29/23 02:52	
EPA 9056	Sulfate	113	mg/L	2.5	04/29/23 03:11	
EPA 6010	Boron	0.46	mg/L	0.10	04/26/23 12:37	
EPA 6010	Calcium	95.4	mg/L	1.0	04/26/23 12:37	
EPA 6020	Arsenic	0.00041J	mg/L	0.0010	04/26/23 08:56	
EPA 6020	Barium	0.14	mg/L	0.0010	04/26/23 08:56	
EPA 6020	Chromium	0.00030J	mg/L	0.0020	04/26/23 08:56	
EPA 6020	Cobalt	0.00019J	mg/L	0.0010	04/26/23 08:56	
EPA 6020	Molybdenum	0.0027	mg/L	0.0010	04/26/23 08:56	
EPA 6020	Selenium	0.00022J	mg/L	0.0010	04/26/23 08:56	
SM 2540C	Total Dissolved Solids	448	mg/L	10.0	04/19/23 16:54	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/27/23 08:50	H3
50342290005	**GAMW-13-041423**					
EPA 9056	Chloride	2.4	mg/L	0.25	04/29/23 04:10	
EPA 9056	Fluoride	0.23	mg/L	0.050	04/29/23 04:10	
EPA 9056	Sulfate	18.0	mg/L	0.25	04/29/23 04:10	
EPA 6010	Boron	0.054J	mg/L	0.10	04/26/23 12:44	
EPA 6010	Calcium	61.4	mg/L	1.0	04/26/23 12:44	
EPA 6020	Antimony	0.00075J	mg/L	0.0010	04/26/23 09:06	
EPA 6020	Arsenic	0.0030	mg/L	0.0010	04/26/23 09:06	
EPA 6020	Barium	0.066	mg/L	0.0010	04/26/23 09:06	
EPA 6020	Cadmium	0.000069J	mg/L	0.00020	04/26/23 09:06	
EPA 6020	Chromium	0.00044J	mg/L	0.0020	04/26/23 09:06	
EPA 6020	Cobalt	0.00024J	mg/L	0.0010	04/26/23 09:06	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342290005	**GAMW-13-041423**					
EPA 6020	Molybdenum	0.0041	mg/L	0.0010	04/26/23 09:06	
EPA 6020	Selenium	0.00039J	mg/L	0.0010	04/26/23 09:06	
SM 2540C	Total Dissolved Solids	217	mg/L	10.0	04/20/23 09:54	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/27/23 08:47	H3
50342290006	**GAMW-13B-041423**					
EPA 9056	Chloride	27.4	mg/L	2.5	04/29/23 05:08	
EPA 9056	Fluoride	0.27	mg/L	0.050	04/29/23 04:48	
EPA 9056	Sulfate	116	mg/L	2.5	04/29/23 05:08	
EPA 6010	Boron	0.62	mg/L	0.10	04/26/23 12:46	
EPA 6010	Calcium	77.0	mg/L	1.0	04/26/23 12:46	
EPA 6020	Arsenic	0.0016	mg/L	0.0010	04/26/23 09:10	
EPA 6020	Barium	0.087	mg/L	0.0010	04/26/23 09:10	
EPA 6020	Chromium	0.00047J	mg/L	0.0020	04/26/23 09:10	
EPA 6020	Cobalt	0.00015J	mg/L	0.0010	04/26/23 09:10	
EPA 6020	Molybdenum	0.014	mg/L	0.0010	04/26/23 09:10	
EPA 6020	Selenium	0.00021J	mg/L	0.0010	04/26/23 09:10	
SM 2540C	Total Dissolved Solids	368	mg/L	10.0	04/20/23 09:55	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	04/27/23 08:47	H3
50342402001	**GAMW-51-041523**					
EPA 9056	Chloride	2.3	mg/L	0.25	04/28/23 12:51	
EPA 9056	Fluoride	0.32	mg/L	0.050	04/28/23 12:51	
EPA 9056	Sulfate	173	mg/L	2.5	04/28/23 13:09	
EPA 6010	Boron	0.42	mg/L	0.10	04/26/23 13:21	
EPA 6010	Calcium	131	mg/L	1.0	04/26/23 13:21	
EPA 6020	Antimony	0.00013J	mg/L	0.0010	04/26/23 09:13	
EPA 6020	Arsenic	0.0015	mg/L	0.0010	04/26/23 09:13	
EPA 6020	Barium	0.089	mg/L	0.0010	04/26/23 09:13	
EPA 6020	Chromium	0.00036J	mg/L	0.0020	04/26/23 09:13	
EPA 6020	Cobalt	0.0042	mg/L	0.0010	04/26/23 09:13	
EPA 6020	Molybdenum	0.0074	mg/L	0.0010	04/26/23 09:13	
EPA 6020	Selenium	0.00035J	mg/L	0.0010	04/26/23 09:13	
SM 2540C	Total Dissolved Solids	523	mg/L	10.0	04/20/23 09:55	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	04/27/23 09:47	H3
50342402002	**GAMW-51B-041523**					
EPA 9056	Chloride	46.5	mg/L	2.5	04/28/23 13:46	
EPA 9056	Fluoride	1.0	mg/L	0.050	04/28/23 13:27	
EPA 9056	Sulfate	1230	mg/L	25.0	04/29/23 21:30	
EPA 6010	Boron	7.1	mg/L	0.10	04/26/23 13:24	
EPA 6010	Calcium	209	mg/L	2.0	04/26/23 15:10	
EPA 6010	Lithium	0.066	mg/L	0.010	04/26/23 13:24	
EPA 6020	Antimony	0.000087J	mg/L	0.0010	04/26/23 09:17	
EPA 6020	Arsenic	0.0041	mg/L	0.0010	04/26/23 09:17	
EPA 6020	Barium	0.056	mg/L	0.0010	04/26/23 09:17	
EPA 6020	Chromium	0.00059J	mg/L	0.0020	04/26/23 09:17	
EPA 6020	Cobalt	0.00032J	mg/L	0.0010	04/26/23 09:17	
EPA 6020	Molybdenum	0.13	mg/L	0.0010	04/26/23 09:17	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342402002	**GAMW-51B-041523**					
EPA 6020	Selenium	0.00048J	mg/L	0.0010	04/26/23 09:17	
SM 2540C	Total Dissolved Solids	1930	mg/L	40.0	04/20/23 09:56	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	04/27/23 09:50	H3
50342402003	**GAMW-59-041523**					
EPA 9056	Chloride	2.5	mg/L	0.25	04/28/23 14:04	
EPA 9056	Fluoride	0.70	mg/L	0.050	04/28/23 14:04	
EPA 9056	Sulfate	554	mg/L	25.0	04/29/23 21:49	
EPA 6010	Boron	0.61	mg/L	0.10	04/26/23 13:26	
EPA 6010	Calcium	256	mg/L	2.0	04/26/23 14:49	
EPA 6020	Antimony	0.000086J	mg/L	0.0010	04/26/23 09:20	
EPA 6020	Arsenic	0.00083J	mg/L	0.0010	04/26/23 09:20	
EPA 6020	Barium	0.079	mg/L	0.0010	04/26/23 09:20	
EPA 6020	Chromium	0.00029J	mg/L	0.0020	04/26/23 09:20	
EPA 6020	Cobalt	0.0010	mg/L	0.0010	04/26/23 09:20	
EPA 6020	Molybdenum	0.028	mg/L	0.0010	04/26/23 09:20	
SM 2540C	Total Dissolved Solids	1020	mg/L	20.0	04/20/23 09:56	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	04/27/23 09:51	H3
50342402004	**GAMW-59B-041523**					
EPA 9056	Chloride	66.4	mg/L	2.5	04/28/23 15:58	
EPA 9056	Fluoride	0.50	mg/L	0.050	04/28/23 14:41	
EPA 9056	Sulfate	858	mg/L	25.0	04/29/23 22:07	
EPA 6010	Boron	5.7	mg/L	0.10	04/26/23 13:28	
EPA 6010	Calcium	155	mg/L	1.0	04/26/23 13:28	
EPA 6010	Lithium	0.010	mg/L	0.010	04/26/23 13:28	
EPA 6020	Arsenic	0.00090J	mg/L	0.0010	04/26/23 09:24	
EPA 6020	Barium	0.031	mg/L	0.0010	04/26/23 09:24	
EPA 6020	Chromium	0.00060J	mg/L	0.0020	04/26/23 09:24	
EPA 6020	Cobalt	0.00034J	mg/L	0.0010	04/26/23 09:24	
EPA 6020	Molybdenum	0.080	mg/L	0.0010	04/26/23 09:24	
EPA 6020	Selenium	0.00030J	mg/L	0.0010	04/26/23 09:24	
SM 2540C	Total Dissolved Solids	1670	mg/L	40.0	04/21/23 08:22	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	04/27/23 09:52	H3
50342608001	**GAMW-09-041923**					
EPA 9056	Chloride	28.5	mg/L	2.5	04/29/23 17:27	
EPA 9056	Fluoride	0.25	mg/L	0.050	04/29/23 17:09	
EPA 9056	Sulfate	416	mg/L	2.5	04/29/23 17:27	
EPA 6010	Boron	2.3	mg/L	0.10	04/29/23 14:27	
EPA 6010	Calcium	175	mg/L	1.0	04/29/23 14:27	
EPA 6020	Antimony	0.00013J	mg/L	0.0010	04/27/23 18:19	
EPA 6020	Arsenic	0.00019J	mg/L	0.0010	04/27/23 18:19	
EPA 6020	Barium	0.053	mg/L	0.0010	04/27/23 18:19	
EPA 6020	Beryllium	0.00082	mg/L	0.00020	04/27/23 18:19	
EPA 6020	Cadmium	0.00025	mg/L	0.00020	04/27/23 18:19	
EPA 6020	Chromium	0.00085J	mg/L	0.0020	04/27/23 18:19	
EPA 6020	Cobalt	0.0015	mg/L	0.0010	04/27/23 18:19	
EPA 6020	Molybdenum	0.031	mg/L	0.0020	04/28/23 04:17	

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(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342608001	**GAMW-09-041923**					
EPA 6020	Selenium	0.0050	mg/L	0.0010	04/27/23 18:19	
SM 2540C	Total Dissolved Solids	778	mg/L	10.0	04/25/23 11:31	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/02/23 15:32	H3
50342608002	**GAMW-09B-041923**					
EPA 9056	Chloride	100	mg/L	2.5	04/29/23 18:23	
EPA 9056	Fluoride	0.84	mg/L	0.050	04/29/23 18:04	
EPA 9056	Sulfate	756	mg/L	25.0	04/29/23 18:41	
EPA 6010	Boron	7.7	mg/L	0.10	04/29/23 14:29	
EPA 6010	Calcium	249	mg/L	2.0	04/29/23 15:01	
EPA 6020	Arsenic	0.0023	mg/L	0.0010	04/27/23 18:22	
EPA 6020	Barium	0.045	mg/L	0.0010	04/27/23 18:22	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	04/27/23 18:22	
EPA 6020	Cobalt	0.00071J	mg/L	0.0010	04/27/23 18:22	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	04/27/23 18:22	
EPA 6020	Selenium	0.00024J	mg/L	0.0010	04/27/23 18:22	
SM 2540C	Total Dissolved Solids	1370	mg/L	20.0	04/25/23 11:41	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/02/23 15:34	H3
50342608003	**GAMW-17-041923**					
EPA 9056	Chloride	125	mg/L	2.5	04/29/23 20:13	
EPA 9056	Fluoride	1.2	mg/L	0.050	04/29/23 19:55	
EPA 9056	Sulfate	559	mg/L	25.0	04/29/23 20:32	
EPA 6010	Boron	11.2	mg/L	0.10	04/29/23 14:31	
EPA 6010	Calcium	260	mg/L	2.0	04/29/23 15:04	
EPA 6020	Antimony	0.00021J	mg/L	0.0010	04/27/23 18:26	
EPA 6020	Arsenic	0.0017	mg/L	0.0010	04/27/23 18:26	
EPA 6020	Barium	0.070	mg/L	0.0010	04/27/23 18:26	
EPA 6020	Chromium	0.00039J	mg/L	0.0020	04/27/23 18:26	
EPA 6020	Cobalt	0.00033J	mg/L	0.0010	04/27/23 18:26	
EPA 6020	Molybdenum	0.010	mg/L	0.0010	04/27/23 18:26	
EPA 6020	Selenium	0.0016	mg/L	0.0010	04/27/23 18:26	
SM 2540C	Total Dissolved Solids	1160	mg/L	20.0	04/25/23 11:41	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/02/23 15:35	H3
50342608004	**GAMW-18-041923**					
EPA 9056	Chloride	44.6	mg/L	2.5	04/29/23 21:08	
EPA 9056	Fluoride	0.12	mg/L	0.050	04/29/23 20:50	
EPA 9056	Sulfate	1230	mg/L	25.0	04/29/23 21:27	
EPA 6010	Boron	3.5	mg/L	0.10	04/29/23 14:34	
EPA 6010	Calcium	480	mg/L	5.0	04/29/23 15:06	
EPA 6020	Antimony	0.00012J	mg/L	0.0010	04/27/23 18:29	
EPA 6020	Arsenic	0.00095J	mg/L	0.0010	04/27/23 18:29	
EPA 6020	Barium	0.040	mg/L	0.0010	04/27/23 18:29	
EPA 6020	Cadmium	0.000091J	mg/L	0.00020	04/27/23 18:29	
EPA 6020	Chromium	0.00097J	mg/L	0.0020	04/27/23 18:29	
EPA 6020	Cobalt	0.00096J	mg/L	0.0010	04/27/23 18:29	
EPA 6020	Lead	0.00068J	mg/L	0.0010	04/27/23 18:29	
EPA 6020	Molybdenum	0.16	mg/L	0.0010	04/27/23 18:29	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342608004	**GAMW-18-041923**					
EPA 6020	Selenium	0.063	mg/L	0.0010	04/27/23 18:29	
SM 2540C	Total Dissolved Solids	2060	mg/L	20.0	04/25/23 11:41	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/02/23 15:37	H3
50342608005	**FD-01-041923**					
EPA 9056	Chloride	103	mg/L	2.5	04/29/23 22:04	
EPA 9056	Fluoride	0.85	mg/L	0.050	04/29/23 21:45	
EPA 9056	Sulfate	734	mg/L	25.0	04/29/23 22:22	
EPA 6010	Boron	7.9	mg/L	0.10	04/29/23 14:36	
EPA 6010	Calcium	252	mg/L	2.0	04/29/23 15:08	
EPA 6020	Arsenic	0.0022	mg/L	0.0010	04/27/23 18:43	
EPA 6020	Barium	0.044	mg/L	0.0010	04/27/23 18:43	
EPA 6020	Chromium	0.00022J	mg/L	0.0020	04/27/23 18:43	
EPA 6020	Cobalt	0.00069J	mg/L	0.0010	04/27/23 18:43	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	04/27/23 18:43	
SM 2540C	Total Dissolved Solids	1360	mg/L	20.0	04/25/23 11:42	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	05/02/23 15:40	H3
50342608006	**FB-01-041923**					
EPA 9056	Chloride	0.086J	mg/L	0.25	04/29/23 23:17	
EPA 6020	Barium	0.0011	mg/L	0.0010	04/27/23 18:46	C0
EPA 6020	Chromium	0.00028J	mg/L	0.0020	04/27/23 18:46	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	05/02/23 15:41	H3
50342776001	**GAMW-17B-042023**					
EPA 9056	Chloride	134	mg/L	2.5	04/30/23 02:40	
EPA 9056	Fluoride	0.56	mg/L	0.050	04/30/23 02:22	
EPA 9056	Sulfate	553	mg/L	25.0	04/30/23 02:59	
EPA 6010	Boron	9.8	mg/L	0.10	05/03/23 13:17	
EPA 6010	Calcium	225	mg/L	2.0	05/03/23 14:09	
EPA 6020	Arsenic	0.0031	mg/L	0.0010	04/27/23 18:50	
EPA 6020	Barium	0.064	mg/L	0.0010	04/27/23 18:50	
EPA 6020	Chromium	0.00029J	mg/L	0.0020	04/27/23 18:50	
EPA 6020	Cobalt	0.00028J	mg/L	0.0010	04/27/23 18:50	
EPA 6020	Molybdenum	0.013	mg/L	0.0010	04/27/23 18:50	
SM 2540C	Total Dissolved Solids	1320	mg/L	20.0	04/26/23 09:02	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/05/23 11:47	H3
50342776002	**GAMW-18B-042023**					
EPA 9056	Chloride	138	mg/L	2.5	04/30/23 06:03	
EPA 9056	Fluoride	1.1	mg/L	0.050	04/30/23 05:44	
EPA 9056	Sulfate	705	mg/L	25.0	04/30/23 06:21	
EPA 6010	Boron	11.3	mg/L	0.10	05/03/23 13:32	
EPA 6010	Calcium	332	mg/L	2.0	05/03/23 14:16	
EPA 6010	Lithium	0.021	mg/L	0.010	05/03/23 13:32	
EPA 6020	Arsenic	0.0021	mg/L	0.0010	04/27/23 19:13	
EPA 6020	Barium	0.030	mg/L	0.0010	04/27/23 19:13	
EPA 6020	Cadmium	0.000017J	mg/L	0.00020	04/27/23 19:13	
EPA 6020	Chromium	0.00033J	mg/L	0.0020	04/27/23 19:13	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342776002	**GAMW-18B-042023**					
EPA 6020	Cobalt	0.00044J	mg/L	0.0010	04/27/23 19:13	
EPA 6020	Molybdenum	0.0097	mg/L	0.0010	04/27/23 19:13	
SM 2540C	Total Dissolved Solids	1990	mg/L	20.0	04/26/23 09:03	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/05/23 11:49	H3
50342776003	**GAMW-60-042023**					
EPA 9056	Chloride	13.9	mg/L	0.25	04/30/23 07:17	
EPA 9056	Fluoride	0.50	mg/L	0.050	04/30/23 07:17	
EPA 9056	Sulfate	826	mg/L	25.0	04/30/23 07:53	
EPA 6010	Boron	1.2	mg/L	0.10	05/03/23 13:35	
EPA 6010	Calcium	385	mg/L	3.0	05/03/23 14:18	
EPA 6020	Antimony	0.00016J	mg/L	0.0010	04/27/23 19:27	
EPA 6020	Arsenic	0.00035J	mg/L	0.0010	04/27/23 19:27	
EPA 6020	Barium	0.030	mg/L	0.0010	04/27/23 19:27	
EPA 6020	Cadmium	0.000040J	mg/L	0.00020	04/27/23 19:27	
EPA 6020	Chromium	0.00036J	mg/L	0.0020	04/28/23 08:09	
EPA 6020	Cobalt	0.0015	mg/L	0.0010	04/27/23 19:27	
EPA 6020	Molybdenum	0.014	mg/L	0.0010	04/27/23 19:27	
EPA 6020	Selenium	0.0055	mg/L	0.0010	04/27/23 19:27	
SM 2540C	Total Dissolved Solids	1480	mg/L	20.0	04/26/23 09:09	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	05/05/23 11:50	H3
50342776004	**GAMW-60B-042023**					
EPA 9056	Chloride	12.1	mg/L	0.25	04/30/23 08:12	
EPA 9056	Fluoride	0.54	mg/L	0.050	04/30/23 08:12	
EPA 9056	Sulfate	1050	mg/L	25.0	04/30/23 08:49	
EPA 6010	Boron	7.1	mg/L	0.10	05/03/23 13:37	
EPA 6010	Calcium	402	mg/L	3.0	05/03/23 14:48	
EPA 6010	Lithium	0.077	mg/L	0.010	05/03/23 13:37	
EPA 6020	Arsenic	0.00020J	mg/L	0.0010	04/27/23 19:31	
EPA 6020	Barium	0.066	mg/L	0.0010	04/27/23 19:31	
EPA 6020	Chromium	0.00044J	mg/L	0.0020	04/28/23 08:05	
EPA 6020	Cobalt	0.00054J	mg/L	0.0010	04/27/23 19:31	
EPA 6020	Molybdenum	0.24	mg/L	0.0020	04/28/23 04:24	
SM 2540C	Total Dissolved Solids	1880	mg/L	20.0	04/26/23 09:09	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/05/23 11:51	H3
50342776005	**GAMW-16R-042023**					
EPA 9056	Chloride	41.7	mg/L	2.5	04/30/23 09:26	
EPA 9056	Fluoride	0.58	mg/L	0.050	04/30/23 09:07	
EPA 9056	Sulfate	549	mg/L	25.0	04/30/23 09:44	
EPA 6010	Boron	2.9	mg/L	0.10	05/03/23 13:39	
EPA 6010	Calcium	256	mg/L	2.0	05/03/23 14:50	
EPA 6020	Arsenic	0.0050	mg/L	0.0010	04/27/23 19:34	
EPA 6020	Barium	0.042	mg/L	0.0010	04/27/23 19:34	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	04/28/23 08:12	
EPA 6020	Cobalt	0.0026	mg/L	0.0010	04/27/23 19:34	
EPA 6020	Molybdenum	0.053	mg/L	0.0010	04/27/23 19:34	
SM 2540C	Total Dissolved Solids	1080	mg/L	20.0	04/26/23 09:10	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342776005	**GAMW-16R-042023**					
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/05/23 11:51	H3
50342776006	**FD-02-042023**					
EPA 9056	Chloride	13.8	mg/L	0.25	04/30/23 10:39	
EPA 9056	Fluoride	0.50	mg/L	0.050	04/30/23 10:39	
EPA 9056	Sulfate	859	mg/L	25.0	04/30/23 11:16	
EPA 6010	Boron	1.2	mg/L	0.10	05/03/23 13:41	
EPA 6010	Calcium	389	mg/L	3.0	05/03/23 14:53	
EPA 6020	Antimony	0.00015J	mg/L	0.0010	04/27/23 19:37	
EPA 6020	Arsenic	0.00038J	mg/L	0.0010	04/27/23 19:37	
EPA 6020	Barium	0.030	mg/L	0.0010	04/27/23 19:37	
EPA 6020	Cadmium	0.000040J	mg/L	0.00020	04/27/23 19:37	
EPA 6020	Chromium	0.00029J	mg/L	0.0020	04/28/23 08:15	
EPA 6020	Cobalt	0.0016	mg/L	0.0010	04/27/23 19:37	
EPA 6020	Molybdenum	0.014	mg/L	0.0010	04/27/23 19:37	
EPA 6020	Selenium	0.0057	mg/L	0.0010	04/27/23 19:37	
SM 2540C	Total Dissolved Solids	1490	mg/L	20.0	04/26/23 09:10	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/05/23 11:53	H3
50342776007	**FB-02-042023**					
EPA 9056	Chloride	0.071J	mg/L	0.25	04/30/23 11:35	
EPA 6020	Barium	0.00086J	mg/L	0.0010	04/27/23 19:48	
EPA 6020	Chromium	0.00029J	mg/L	0.0020	04/28/23 08:19	
SM 4500-H+B	pH at 25 Degrees C	6.3	Std. Units	0.10	05/05/23 11:55	H3
50342909001	**GAMW-08-042123**					
EPA 9056	Chloride	62.7	mg/L	2.5	05/04/23 06:55	
EPA 9056	Fluoride	1.8	mg/L	0.050	05/04/23 06:38	
EPA 9056	Sulfate	550	mg/L	25.0	05/04/23 17:59	
EPA 6010	Boron	1.5	mg/L	0.10	05/04/23 10:11	
EPA 6010	Calcium	298	mg/L	2.0	05/04/23 11:38	
EPA 6020	Antimony	0.00064J	mg/L	0.0010	04/27/23 19:51	
EPA 6020	Arsenic	0.0023	mg/L	0.0010	04/27/23 19:51	
EPA 6020	Barium	0.047	mg/L	0.0010	04/27/23 19:51	
EPA 6020	Cadmium	0.00011J	mg/L	0.00020	04/27/23 19:51	
EPA 6020	Chromium	0.00048J	mg/L	0.0020	04/28/23 08:33	
EPA 6020	Cobalt	0.0032	mg/L	0.0010	04/27/23 19:51	
EPA 6020	Molybdenum	0.065	mg/L	0.0010	04/27/23 19:51	
EPA 6020	Selenium	0.017	mg/L	0.0010	04/27/23 19:51	
EPA 6020	Thallium	0.000067J	mg/L	0.0010	04/27/23 19:51	
SM 2540C	Total Dissolved Solids	1480	mg/L	20.0	04/27/23 09:09	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/08/23 12:59	H3
50342909002	**GAMW-08B-042123**					
EPA 9056	Chloride	187	mg/L	2.5	05/04/23 18:17	
EPA 9056	Fluoride	1.3	mg/L	0.050	05/04/23 07:12	
EPA 9056	Sulfate	1060	mg/L	25.0	05/04/23 18:34	
EPA 6010	Boron	11.7	mg/L	0.10	05/04/23 10:18	
EPA 6010	Calcium	230	mg/L	2.0	05/04/23 11:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342909002	**GAMW-08B-042123**					
EPA 6020	Arsenic	0.00031J	mg/L	0.0010	04/27/23 19:55	
EPA 6020	Barium	0.055	mg/L	0.0010	04/27/23 19:55	
EPA 6020	Chromium	0.00023J	mg/L	0.0020	04/28/23 08:36	
EPA 6020	Cobalt	0.00038J	mg/L	0.0010	04/27/23 19:55	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	04/27/23 19:55	
SM 2540C	Total Dissolved Solids	2050	mg/L	20.0	04/27/23 09:09	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/08/23 13:01	H3
50342909003	**GAMW-16BR-042123**					
EPA 9056	Chloride	392	mg/L	25.0	05/04/23 19:26	
EPA 9056	Fluoride	0.63	mg/L	0.050	05/04/23 07:47	
EPA 9056	Sulfate	2360	mg/L	25.0	05/04/23 19:26	
EPA 6010	Boron	22.3	mg/L	0.10	05/04/23 10:20	
EPA 6010	Calcium	522	mg/L	5.0	05/04/23 11:47	
EPA 6010	Lithium	0.021	mg/L	0.010	05/05/23 10:08	2d
EPA 6020	Arsenic	0.0016	mg/L	0.0010	04/27/23 19:58	
EPA 6020	Barium	0.053	mg/L	0.0010	04/27/23 19:58	
EPA 6020	Chromium	0.00056J	mg/L	0.0020	04/28/23 08:40	
EPA 6020	Cobalt	0.00082J	mg/L	0.0010	04/27/23 19:58	
EPA 6020	Lead	0.000083J	mg/L	0.0010	04/27/23 19:58	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	04/27/23 19:58	
EPA 6020	Selenium	0.00073J	mg/L	0.0010	04/27/23 19:58	
SM 2540C	Total Dissolved Solids	4420	mg/L	40.0	04/27/23 09:10	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/08/23 13:02	H3
50342912001	**GAMW-56-042123**					
EPA 9056	Chloride	7.5	mg/L	0.25	05/04/23 08:22	
EPA 9056	Fluoride	0.47	mg/L	0.050	05/04/23 08:22	
EPA 9056	Sulfate	63.9	mg/L	2.5	05/04/23 08:40	
EPA 6010	Boron	0.29	mg/L	0.10	05/04/23 10:23	
EPA 6010	Calcium	118	mg/L	1.0	05/04/23 10:23	
EPA 6020	Antimony	0.00017J	mg/L	0.0010	04/27/23 20:12	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	04/27/23 20:12	
EPA 6020	Barium	0.045	mg/L	0.0010	04/27/23 20:12	
EPA 6020	Cadmium	0.000039J	mg/L	0.00020	04/27/23 20:12	
EPA 6020	Chromium	0.00028J	mg/L	0.0020	04/27/23 20:12	
EPA 6020	Cobalt	0.0082	mg/L	0.0010	04/27/23 20:12	
EPA 6020	Molybdenum	0.0077	mg/L	0.0010	04/27/23 20:12	
EPA 6020	Selenium	0.0018	mg/L	0.0010	04/27/23 20:12	
SM 2540C	Total Dissolved Solids	478	mg/L	10.0	04/27/23 09:10	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	05/08/23 13:03	H3
50342912002	**GAMW-56B-042123**					
EPA 9056	Chloride	67.9	mg/L	2.5	05/04/23 09:14	
EPA 9056	Fluoride	0.46	mg/L	0.050	05/04/23 08:57	
EPA 9056	Sulfate	330	mg/L	2.5	05/04/23 09:14	
EPA 6010	Boron	3.1	mg/L	0.10	05/04/23 10:25	
EPA 6010	Calcium	180	mg/L	1.0	05/04/23 10:25	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	04/27/23 20:15	

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(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342912002	**GAMW-56B-042123**					
EPA 6020	Barium	0.079	mg/L	0.0010	04/27/23 20:15	
EPA 6020	Chromium	0.00040J	mg/L	0.0020	04/27/23 20:15	
EPA 6020	Cobalt	0.00026J	mg/L	0.0010	04/27/23 20:15	
EPA 6020	Molybdenum	0.011	mg/L	0.0010	04/27/23 20:15	
SM 2540C	Total Dissolved Solids	903	mg/L	10.0	04/27/23 09:11	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/08/23 13:04	H3
50343032001	**GAMW-53-042423**					
EPA 9056	Chloride	2.0	mg/L	0.25	05/06/23 08:14	
EPA 9056	Sulfate	37.2	mg/L	0.25	05/06/23 08:14	
EPA 6010	Boron	0.083J	mg/L	0.10	05/04/23 11:20	
EPA 6010	Calcium	28.9	mg/L	1.0	05/04/23 11:20	
EPA 6020	Antimony	0.00031J	mg/L	0.0010	05/03/23 00:14	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	05/03/23 00:14	
EPA 6020	Barium	0.016	mg/L	0.0010	05/03/23 00:14	
EPA 6020	Cadmium	0.000027J	mg/L	0.00020	05/03/23 00:14	
EPA 6020	Chromium	0.0012J	mg/L	0.0020	05/03/23 00:14	
EPA 6020	Cobalt	0.00038J	mg/L	0.0010	05/03/23 00:14	
EPA 6020	Lead	0.00063J	mg/L	0.0010	05/03/23 00:14	
EPA 6020	Molybdenum	0.0056	mg/L	0.0010	05/03/23 00:14	
EPA 6020	Selenium	0.00075J	mg/L	0.0010	05/03/23 00:14	
EPA 6020	Thallium	0.000042J	mg/L	0.0010	05/03/23 00:14	
SM 2540C	Total Dissolved Solids	147	mg/L	10.0	04/28/23 08:32	
SM 4500-H+B	pH at 25 Degrees C	6.2	Std. Units	0.10	05/08/23 16:42	H3
50343032002	**GAMW-53B-042423**					
EPA 9056	Chloride	130	mg/L	2.5	05/06/23 09:32	
EPA 9056	Fluoride	0.44	mg/L	0.050	05/06/23 09:13	
EPA 9056	Sulfate	524	mg/L	25.0	05/06/23 09:52	
EPA 6010	Boron	5.8	mg/L	0.10	05/04/23 11:23	
EPA 6010	Calcium	225	mg/L	2.0	05/04/23 11:50	
EPA 6020	Arsenic	0.00080J	mg/L	0.0010	05/03/23 00:17	
EPA 6020	Barium	0.084	mg/L	0.0010	05/03/23 00:17	
EPA 6020	Cadmium	0.000017J	mg/L	0.00020	05/03/23 00:17	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	05/03/23 00:17	
EPA 6020	Cobalt	0.00018J	mg/L	0.0010	05/03/23 00:17	
EPA 6020	Molybdenum	0.0077	mg/L	0.0010	05/03/23 00:17	
EPA 6020	Selenium	0.00024J	mg/L	0.0010	05/03/23 00:17	
SM 2540C	Total Dissolved Solids	1300	mg/L	20.0	04/28/23 08:33	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/08/23 16:44	H3
50343172001	**GAMW-52-042523**					
EPA 9056	Chloride	43.0	mg/L	2.5	05/05/23 04:27	
EPA 9056	Fluoride	0.41	mg/L	0.050	05/05/23 04:09	
EPA 9056	Sulfate	56.4	mg/L	2.5	05/05/23 04:27	
EPA 6010	Boron	0.062J	mg/L	0.10	05/08/23 10:00	
EPA 6010	Calcium	64.9	mg/L	1.0	05/08/23 10:00	
EPA 6020	Antimony	0.00015J	mg/L	0.0010	05/03/23 00:20	
EPA 6020	Arsenic	0.00015J	mg/L	0.0010	05/03/23 00:20	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343172001	**GAMW-52-042523**					
EPA 6020	Barium	0.012	mg/L	0.0010	05/03/23 00:20	
EPA 6020	Chromium	0.00027J	mg/L	0.0020	05/03/23 00:20	
EPA 6020	Cobalt	0.00011J	mg/L	0.0010	05/03/23 00:20	
EPA 6020	Molybdenum	0.0037	mg/L	0.0010	05/03/23 00:20	
EPA 6020	Selenium	0.00069J	mg/L	0.0010	05/03/23 00:20	
EPA 6020	Thallium	0.000059J	mg/L	0.0010	05/03/23 00:20	
SM 2540C	Total Dissolved Solids	279	mg/L	10.0	04/29/23 08:22	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	05/09/23 14:50	H3
50343172002	**GAMW-52B-042523**					
EPA 9056	Chloride	199	mg/L	2.5	05/06/23 00:11	
EPA 9056	Fluoride	0.92	mg/L	0.050	05/05/23 23:51	
EPA 9056	Sulfate	62.8	mg/L	2.5	05/06/23 00:11	
EPA 6010	Boron	0.14	mg/L	0.10	05/08/23 10:02	
EPA 6010	Calcium	92.5	mg/L	1.0	05/08/23 10:02	
EPA 6020	Antimony	0.000072J	mg/L	0.0010	05/03/23 00:31	
EPA 6020	Arsenic	0.00050J	mg/L	0.0010	05/03/23 00:31	
EPA 6020	Barium	0.11	mg/L	0.0010	05/03/23 00:31	
EPA 6020	Chromium	0.00032J	mg/L	0.0020	05/03/23 00:31	
EPA 6020	Cobalt	0.000077J	mg/L	0.0010	05/03/23 00:31	
EPA 6020	Lead	0.000036J	mg/L	0.0010	05/03/23 00:31	
EPA 6020	Molybdenum	0.0046	mg/L	0.0010	05/03/23 00:31	
SM 2540C	Total Dissolved Solids	540	mg/L	10.0	04/29/23 08:22	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/09/23 14:51	H3
50343172003	**FD-03-042523**					
EPA 9056	Chloride	42.8	mg/L	2.5	05/05/23 05:19	
EPA 9056	Fluoride	0.41	mg/L	0.050	05/05/23 05:01	
EPA 9056	Sulfate	59.1	mg/L	2.5	05/05/23 05:19	
EPA 6010	Calcium	63.6	mg/L	1.0	05/08/23 10:13	
EPA 6020	Antimony	0.00015J	mg/L	0.0010	05/03/23 00:57	
EPA 6020	Arsenic	0.00015J	mg/L	0.0010	05/03/23 00:57	
EPA 6020	Barium	0.012	mg/L	0.0010	05/03/23 00:57	
EPA 6020	Cadmium	0.000011J	mg/L	0.00020	05/03/23 00:57	
EPA 6020	Chromium	0.00025J	mg/L	0.0020	05/03/23 00:57	
EPA 6020	Cobalt	0.00011J	mg/L	0.0010	05/03/23 00:57	
EPA 6020	Molybdenum	0.0036	mg/L	0.0010	05/03/23 00:57	
EPA 6020	Selenium	0.00086J	mg/L	0.0010	05/03/23 00:57	
EPA 6020	Thallium	0.000058J	mg/L	0.0010	05/03/23 00:57	
SM 2540C	Total Dissolved Solids	278	mg/L	10.0	04/29/23 08:23	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	05/09/23 14:52	H3
50343254001	**GAMW-55B-042623**					
EPA 9056	Chloride	120	mg/L	2.5	05/07/23 10:27	
EPA 9056	Fluoride	0.30	mg/L	0.050	05/07/23 10:07	
EPA 9056	Sulfate	522	mg/L	25.0	05/07/23 10:46	
EPA 6010	Boron	7.4	mg/L	0.10	05/08/23 10:27	
EPA 6010	Calcium	191	mg/L	1.0	05/08/23 10:27	
EPA 6020	Arsenic	0.00023J	mg/L	0.0010	05/03/23 01:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343254001	**GAMW-55B-042623**					
EPA 6020	Barium	0.055	mg/L	0.0010	05/03/23 01:01	
EPA 6020	Chromium	0.00027J	mg/L	0.0020	05/03/23 01:01	
EPA 6020	Cobalt	0.00017J	mg/L	0.0010	05/03/23 01:01	
EPA 6020	Lead	0.000036J	mg/L	0.0010	05/03/23 01:01	
EPA 6020	Molybdenum	0.0063	mg/L	0.0010	05/03/23 01:01	
EPA 6020	Selenium	0.00023J	mg/L	0.0010	05/03/23 01:01	
SM 2540C	Total Dissolved Solids	1170	mg/L	10.0	05/01/23 11:02	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	05/09/23 15:37	H3
50343254002	**FB-03-042623**					
EPA 6020	Barium	0.0013	mg/L	0.0010	05/03/23 01:04	C0
EPA 6020	Chromium	0.00018J	mg/L	0.0020	05/03/23 01:04	
SM 4500-H+B	pH at 25 Degrees C	6.0	Std. Units	0.10	05/09/23 15:39	H3
50343255001	**GAMW-54-042623**					
EPA 9056	Chloride	26.2	mg/L	2.5	05/07/23 11:45	
EPA 9056	Fluoride	0.35	mg/L	0.050	05/07/23 11:25	
EPA 9056	Sulfate	273	mg/L	2.5	05/07/23 11:45	
EPA 6010	Boron	0.58	mg/L	0.10	05/08/23 10:32	
EPA 6010	Calcium	145	mg/L	1.0	05/08/23 10:32	
EPA 6020	Antimony	0.00055J	mg/L	0.0010	05/03/23 01:07	
EPA 6020	Arsenic	0.0094	mg/L	0.0010	05/03/23 01:07	
EPA 6020	Barium	0.059	mg/L	0.0010	05/03/23 01:07	
EPA 6020	Cadmium	0.000028J	mg/L	0.00020	05/03/23 01:07	
EPA 6020	Chromium	0.00060J	mg/L	0.0020	05/03/23 01:07	
EPA 6020	Cobalt	0.00065J	mg/L	0.0010	05/03/23 01:07	
EPA 6020	Lead	0.00011J	mg/L	0.0010	05/03/23 01:07	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	05/03/23 01:07	
EPA 6020	Selenium	0.0035	mg/L	0.0010	05/03/23 01:07	
EPA 6020	Thallium	0.00011J	mg/L	0.0010	05/03/23 01:07	
SM 2540C	Total Dissolved Solids	705	mg/L	10.0	05/01/23 11:03	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	05/09/23 15:41	H3
50343255002	**GAMW-54B-042623**					
EPA 9056	Chloride	121	mg/L	2.5	05/07/23 13:22	
EPA 9056	Fluoride	0.55	mg/L	0.050	05/07/23 13:03	
EPA 9056	Sulfate	465	mg/L	2.5	05/07/23 13:22	
EPA 6010	Boron	4.1	mg/L	0.10	05/08/23 10:35	
EPA 6010	Calcium	192	mg/L	1.0	05/08/23 10:35	
EPA 6020	Arsenic	0.0036	mg/L	0.0010	05/03/23 01:11	
EPA 6020	Barium	0.065	mg/L	0.0010	05/03/23 01:11	
EPA 6020	Chromium	0.00028J	mg/L	0.0020	05/03/23 01:11	
EPA 6020	Cobalt	0.00017J	mg/L	0.0010	05/03/23 01:11	
EPA 6020	Lead	0.000062J	mg/L	0.0010	05/03/23 01:11	
EPA 6020	Molybdenum	0.023	mg/L	0.0010	05/03/23 01:11	
SM 2540C	Total Dissolved Solids	1070	mg/L	10.0	05/01/23 11:03	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/09/23 15:46	H3

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343255003	**GAMW-55R-042623**					
EPA 9056	Chloride	33.5	mg/L	2.5	05/07/23 14:21	
EPA 9056	Fluoride	0.61	mg/L	0.050	05/07/23 14:01	
EPA 9056	Sulfate	342	mg/L	2.5	05/07/23 14:21	
EPA 6010	Boron	0.88	mg/L	0.10	05/08/23 10:37	
EPA 6010	Calcium	169	mg/L	1.0	05/08/23 10:37	
EPA 6020	Antimony	0.00012J	mg/L	0.0010	05/03/23 01:21	
EPA 6020	Arsenic	0.00024J	mg/L	0.0010	05/03/23 01:21	
EPA 6020	Barium	0.027	mg/L	0.0010	05/03/23 01:21	
EPA 6020	Cadmium	0.000021J	mg/L	0.00020	05/03/23 01:21	
EPA 6020	Chromium	0.00031J	mg/L	0.0020	05/03/23 01:21	
EPA 6020	Cobalt	0.00024J	mg/L	0.0010	05/03/23 01:21	
EPA 6020	Molybdenum	0.022	mg/L	0.0010	05/03/23 01:21	
EPA 6020	Selenium	0.0068	mg/L	0.0010	05/03/23 01:21	
EPA 6020	Thallium	0.000093J	mg/L	0.0010	05/03/23 01:21	
SM 2540C	Total Dissolved Solids	765	mg/L	10.0	05/01/23 11:03	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/09/23 15:49	H3
50343612001	**GAMW-68-050123**					
EPA 9056	Chloride	19.5	mg/L	2.5	05/14/23 12:46	
EPA 9056	Fluoride	0.20	mg/L	0.050	05/12/23 21:15	
EPA 9056	Sulfate	64.0	mg/L	2.5	05/14/23 12:46	
EPA 6010	Calcium	62.4	mg/L	1.0	05/12/23 14:55	
EPA 6020	Antimony	0.00020J	mg/L	0.0010	05/10/23 17:26	
EPA 6020	Arsenic	0.0030	mg/L	0.0010	05/10/23 17:26	
EPA 6020	Barium	0.10	mg/L	0.0010	05/10/23 17:26	
EPA 6020	Chromium	0.00029J	mg/L	0.0020	05/10/23 17:26	
EPA 6020	Cobalt	0.00065J	mg/L	0.0010	05/10/23 17:26	
EPA 6020	Lead	0.00030J	mg/L	0.0010	05/10/23 17:26	
EPA 6020	Molybdenum	0.0033	mg/L	0.0010	05/10/23 17:26	
SM 2540C	Total Dissolved Solids	260	mg/L	10.0	05/03/23 14:31	
SM 4500-H+B	pH at 25 Degrees C	8.2	Std. Units	0.10	05/12/23 10:57	H3
50343612002	**GAMW-68B-050123**					
EPA 9056	Chloride	14.6	mg/L	2.5	05/16/23 13:15	
EPA 9056	Fluoride	0.17	mg/L	0.050	05/12/23 22:12	
EPA 9056	Sulfate	71.0	mg/L	2.5	05/16/23 13:15	
EPA 6010	Calcium	47.0	mg/L	1.0	05/12/23 15:06	
EPA 6020	Antimony	0.000085J	mg/L	0.0010	05/10/23 17:29	
EPA 6020	Arsenic	0.00024J	mg/L	0.0010	05/10/23 17:29	
EPA 6020	Barium	0.099	mg/L	0.0010	05/10/23 17:29	
EPA 6020	Chromium	0.00034J	mg/L	0.0020	05/10/23 17:29	
EPA 6020	Cobalt	0.000044J	mg/L	0.0010	05/10/23 17:29	
EPA 6020	Lead	0.000040J	mg/L	0.0010	05/10/23 17:29	
EPA 6020	Molybdenum	0.0021	mg/L	0.0010	05/10/23 17:29	
SM 2540C	Total Dissolved Solids	229	mg/L	10.0	05/03/23 14:31	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	05/12/23 11:00	H3
50343612003	**FB-04-050123**					
EPA 9056	Chloride	0.079J	mg/L	0.25	05/12/23 23:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343612003	**FB-04-050123**					
EPA 6020	Antimony	0.000060J	mg/L	0.0010	05/10/23 17:12	
EPA 6020	Barium	0.0023	mg/L	0.0010	05/10/23 17:12	C0
EPA 6020	Chromium	0.00026J	mg/L	0.0020	05/10/23 17:12	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	05/12/23 11:02	H3
50343612004	**FD-04-050123**					
EPA 9056	Chloride	14.4	mg/L	2.5	05/13/23 00:43	
EPA 9056	Fluoride	0.18	mg/L	0.050	05/13/23 00:24	
EPA 9056	Sulfate	70.8	mg/L	2.5	05/13/23 00:43	
EPA 6010	Calcium	48.4	mg/L	1.0	05/12/23 15:11	
EPA 6020	Antimony	0.000074J	mg/L	0.0010	05/10/23 17:32	
EPA 6020	Arsenic	0.00023J	mg/L	0.0010	05/10/23 17:32	
EPA 6020	Barium	0.098	mg/L	0.0010	05/10/23 17:32	
EPA 6020	Cadmium	0.000014J	mg/L	0.00020	05/10/23 17:32	
EPA 6020	Chromium	0.00028J	mg/L	0.0020	05/10/23 17:32	
EPA 6020	Cobalt	0.000043J	mg/L	0.0010	05/10/23 17:32	
EPA 6020	Lead	0.000049J	mg/L	0.0010	05/10/23 17:32	
EPA 6020	Molybdenum	0.0021	mg/L	0.0010	05/10/23 17:32	
SM 2540C	Total Dissolved Solids	202	mg/L	10.0	05/03/23 14:50	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	05/12/23 11:03	H3

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **EPA 9056**
Description: 9056 IC Anions
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
46 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: 728551

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50341968001,50341968009

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

- MS (Lab ID: 3343364)
  - Sulfate
- MSD (Lab ID: 3343365)
  - Sulfate

QC Batch: 729724

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50342144002

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

- MS (Lab ID: 3348873)
  - Chloride
- MSD (Lab ID: 3348875)
  - Chloride

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **EPA 9056**
Description: 9056 IC Anions
Client: NiSource_WSP Golder
Date: May 23, 2023

QC Batch: 730064

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50342433005

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

- MS (Lab ID: 3350426)
  - Sulfate
- MSD (Lab ID: 3350427)
  - Sulfate

QC Batch: 731633

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50343240003

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

- MS (Lab ID: 3357544)
  - Chloride

QC Batch: 732630

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50344228001

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

- MS (Lab ID: 3362313)
  - Fluoride
- MSD (Lab ID: 3362314)
  - Fluoride

Additional Comments:

Analyte Comments:

QC Batch: 729724

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

- MS (Lab ID: 3348873)
  - Chloride
- MSD (Lab ID: 3348875)
  - Chloride

QC Batch: 730064

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

- MS (Lab ID: 3350426)
  - Sulfate
- MSD (Lab ID: 3350427)
  - Sulfate

QC Batch: 731633

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

- MS (Lab ID: 3357544)
  - Chloride
- MSD (Lab ID: 3357545)
  - Chloride

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
46 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: 729319

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50341419003

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

- MSD (Lab ID: 3347270)
  - Calcium

QC Batch: 729382

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50342287001

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

- MSD (Lab ID: 3347636)
  - Calcium

QC Batch: 729386

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50342433005

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

- MS (Lab ID: 3347670)

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_WSP Golder
Date: May 23, 2023

QC Batch: 729386

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50342433005

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

- Calcium

QC Batch: 729393

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50342606001

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

- MS (Lab ID: 3347698)
  - Calcium
- MSD (Lab ID: 3347699)
  - Calcium

QC Batch: 730692

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50342776001

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

- MSD (Lab ID: 3353964)
  - Boron
  - Calcium

QC Batch: 732537

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50343612001

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

- MS (Lab ID: 3361879)
  - Calcium
- MSD (Lab ID: 3361880)
  - Calcium

Additional Comments:

Analyte Comments:

QC Batch: 731076

2d: Closing CRDL @ 39% recovery ELK 05/08/23

- BLANK (Lab ID: 3355114)
  - Lithium
- GAMW-08-042123 (Lab ID: 50342909001)
  - Lithium
- GAMW-16BR-042123 (Lab ID: 50342909003)
  - Lithium
- LCS (Lab ID: 3355115)
  - Lithium

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
46 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: 729632

C0: Result confirmed by second analysis.

- FB-01-041923 (Lab ID: 50342608006)
  - Barium

QC Batch: 730633

C0: Result confirmed by second analysis.

- FB-03-042623 (Lab ID: 50343254002)
  - Barium

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_WSP Golder
Date: May 23, 2023

Analyte Comments:

QC Batch: 732043

C0: Result confirmed by second analysis.

- FB-04-050123 (Lab ID: 50343612003)
  - Barium

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **EPA 7470**
Description: 7470 Mercury
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
46 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:

Analyte Comments:

QC Batch: 731914

1d: Closing CRDL 132%. Sample negative for Hg.

- FB-04-050123 (Lab ID: 50343612003)
  - Mercury
- FD-04-050123 (Lab ID: 50343612004)
  - Mercury
- GAMW-68-050123 (Lab ID: 50343612001)
  - Mercury
- GAMW-68B-050123 (Lab ID: 50343612002)
  - Mercury

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
46 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: 729698

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- FB-01-041923 (Lab ID: 50342608006)
  - Total Dissolved Solids

QC Batch: 729888

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- FB-02-042023 (Lab ID: 50342776007)
  - Total Dissolved Solids

QC Batch: 730811

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- FB-03-042623 (Lab ID: 50343254002)
  - Total Dissolved Solids

QC Batch: 731396

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- FB-04-050123 (Lab ID: 50343612003)
  - Total Dissolved Solids

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
46 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-01-041923 (Lab ID: 50342608006)
- FB-02-042023 (Lab ID: 50342776007)
- FB-03-042623 (Lab ID: 50343254002)
- FB-04-050123 (Lab ID: 50343612003)
- FD-01-041923 (Lab ID: 50342608005)
- FD-02-042023 (Lab ID: 50342776006)
- FD-03-042523 (Lab ID: 50343172003)
- FD-04-050123 (Lab ID: 50343612004)
- GAMW-01-041323 (Lab ID: 50342144001)
- GAMW-01B-041323 (Lab ID: 50342144002)
- GAMW-03-041423 (Lab ID: 50342290001)
- GAMW-03B-041423 (Lab ID: 50342290002)
- GAMW-08-042123 (Lab ID: 50342909001)
- GAMW-08B-042123 (Lab ID: 50342909002)
- GAMW-09-041923 (Lab ID: 50342608001)
- GAMW-09B-041923 (Lab ID: 50342608002)
- GAMW-12-041423 (Lab ID: 50342290003)
- GAMW-12B-041423 (Lab ID: 50342290004)
- GAMW-13-041423 (Lab ID: 50342290005)
- GAMW-13B-041423 (Lab ID: 50342290006)
- GAMW-14-041223 (Lab ID: 50341962001)
- GAMW-14B-041223 (Lab ID: 50341962002)
- GAMW-16BR-042123 (Lab ID: 50342909003)
- GAMW-16R-042023 (Lab ID: 50342776005)
- GAMW-17-041923 (Lab ID: 50342608003)
- GAMW-17B-042023 (Lab ID: 50342776001)
- GAMW-18-041923 (Lab ID: 50342608004)
- GAMW-18B-042023 (Lab ID: 50342776002)
- GAMW-51-041523 (Lab ID: 50342402001)
- GAMW-51B-041523 (Lab ID: 50342402002)
- GAMW-52-042523 (Lab ID: 50343172001)
- GAMW-52B-042523 (Lab ID: 50343172002)
- GAMW-53-042423 (Lab ID: 50343032001)
- GAMW-53B-042423 (Lab ID: 50343032002)
- GAMW-54-042623 (Lab ID: 50343255001)
- GAMW-54B-042623 (Lab ID: 50343255002)
- GAMW-55B-042623 (Lab ID: 50343254001)

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: NiSource_WSP Golder
Date: May 23, 2023

H3: Sample was received or analysis requested beyond the recognized method holding time.
- GAMW-55R-042623 (Lab ID: 50343255003)
- GAMW-56-042123 (Lab ID: 50342912001)
- GAMW-56B-042123 (Lab ID: 50342912002)
- GAMW-59-041523 (Lab ID: 50342402003)
- GAMW-59B-041523 (Lab ID: 50342402004)
- GAMW-60-042023 (Lab ID: 50342776003)
- GAMW-60B-042023 (Lab ID: 50342776004)
- GAMW-68-050123 (Lab ID: 50343612001)
- GAMW-68B-050123 (Lab ID: 50343612002)

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: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-14-041223 **Lab ID: 50341962001** Collected: 04/12/23 13:40 Received: 04/13/23 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	**3.0**	mg/L	0.25	0.067	1		04/23/23 03:48	16887-00-6	
Fluoride	**0.16**	mg/L	0.050	0.017	1		04/23/23 03:48	16984-48-8	
Sulfate	**41.7**	mg/L	0.25	0.085	1		04/23/23 03:48	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	**0.12**	mg/L	0.10	0.038	1	04/22/23 16:43	04/24/23 14:04	7440-42-8	
Calcium	**57.3**	mg/L	1.0	0.16	1	04/22/23 16:43	04/24/23 14:04	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/22/23 16:43	04/24/23 14:04	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	0.000036	1	04/16/23 22:30	04/18/23 19:04	7440-36-0	
Arsenic	**0.0093**	mg/L	0.0010	0.000053	1	04/16/23 22:30	04/18/23 19:04	7440-38-2	
Barium	**0.045**	mg/L	0.0010	0.000051	1	04/16/23 22:30	04/18/23 19:04	7440-39-3	
Beryllium	**0.000033J**	mg/L	0.00020	0.000028	1	04/16/23 22:30	04/18/23 19:04	7440-41-7	
Cadmium	**0.000031J**	mg/L	0.00020	0.0000090	1	04/16/23 22:30	04/18/23 19:04	7440-43-9	
Chromium	**0.00096J**	mg/L	0.0020	0.00013	1	04/16/23 22:30	04/18/23 19:04	7440-47-3	
Cobalt	**0.012**	mg/L	0.0010	0.000032	1	04/16/23 22:30	04/18/23 19:04	7440-48-4	
Lead	**0.00025J**	mg/L	0.0010	0.000034	1	04/16/23 22:30	04/18/23 19:04	7439-92-1	
Molybdenum	**0.0056**	mg/L	0.0010	0.000048	1	04/16/23 22:30	04/18/23 19:04	7439-98-7	
Selenium	**0.00055J**	mg/L	0.0010	0.00023	1	04/16/23 22:30	04/18/23 19:04	7782-49-2	
Thallium	**0.000057J**	mg/L	0.0010	0.000033	1	04/16/23 22:30	04/18/23 19:04	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	ug/L	0.20	0.12	1	04/20/23 19:07	04/21/23 07:43	7439-97-6	F5
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	**201**	mg/L	10.0	10.0	1		04/18/23 08:25		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**8.8**	Std. Units	0.10	0.10	1		04/26/23 14:25		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-14B-041223 **Lab ID: 50341962002** Collected: 04/12/23 13:25 Received: 04/13/23 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	**108**	mg/L	2.5	0.67	10		04/23/23 04:35	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		04/23/23 04:19	16984-48-8	
Sulfate	**922**	mg/L	25.0	8.5	100		04/25/23 09:19	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	**2.4**	mg/L	0.10	0.038	1	04/22/23 16:43	04/24/23 14:11	7440-42-8	
Calcium	**175**	mg/L	1.0	0.16	1	04/22/23 16:43	04/24/23 14:11	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/22/23 16:43	04/24/23 14:11	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	**0.000072J**	mg/L	0.0010	0.000036	1	04/16/23 22:30	04/18/23 19:07	7440-36-0	
Arsenic	**0.00040J**	mg/L	0.0010	0.000053	1	04/16/23 22:30	04/18/23 19:07	7440-38-2	
Barium	**0.064**	mg/L	0.0010	0.000051	1	04/16/23 22:30	04/18/23 19:07	7440-39-3	
Beryllium	**0.000038J**	mg/L	0.00020	0.000028	1	04/16/23 22:30	04/18/23 19:07	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/16/23 22:30	04/18/23 19:07	7440-43-9	
Chromium	**0.00090J**	mg/L	0.0020	0.00013	1	04/16/23 22:30	04/18/23 19:07	7440-47-3	
Cobalt	**0.00026J**	mg/L	0.0010	0.000032	1	04/16/23 22:30	04/18/23 19:07	7440-48-4	
Lead	**0.000038J**	mg/L	0.0010	0.000034	1	04/16/23 22:30	04/18/23 19:07	7439-92-1	
Molybdenum	**0.028**	mg/L	0.0010	0.000048	1	04/16/23 22:30	04/18/23 19:07	7439-98-7	
Selenium	**0.00029J**	mg/L	0.0010	0.00023	1	04/16/23 22:30	04/18/23 19:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/16/23 22:30	04/18/23 19:07	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	ug/L	0.20	0.12	1	04/20/23 19:07	04/21/23 07:46	7439-97-6	F5
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	**3420**	mg/L	40.0	40.0	1		04/18/23 08:26		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.5**	Std. Units	0.10	0.10	1		04/26/23 14:22		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-01-041323 **Lab ID: 50342144001** Collected: 04/13/23 11:35 Received: 04/14/23 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	**14.8**	mg/L	0.25	0.067	1		04/26/23 16:17	16887-00-6	
Fluoride	**0.34**	mg/L	0.050	0.017	1		04/26/23 16:17	16984-48-8	
Sulfate	**152**	mg/L	2.5	0.85	10		04/26/23 16:32	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	**1.0**	mg/L	0.10	0.038	1	04/25/23 07:35	04/26/23 10:37	7440-42-8	
Calcium	**97.3**	mg/L	1.0	0.16	1	04/25/23 07:35	04/26/23 10:37	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 07:35	04/26/23 10:37	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	**0.00015J**	mg/L	0.0010	0.000036	1	04/16/23 22:30	04/18/23 19:11	7440-36-0	
Arsenic	**0.0066**	mg/L	0.0010	0.000053	1	04/16/23 22:30	04/18/23 19:11	7440-38-2	
Barium	**0.062**	mg/L	0.0010	0.000051	1	04/16/23 22:30	04/18/23 19:11	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/16/23 22:30	04/18/23 19:11	7440-41-7	
Cadmium	**0.000025J**	mg/L	0.00020	0.0000090	1	04/16/23 22:30	04/18/23 19:11	7440-43-9	
Chromium	**0.00044J**	mg/L	0.0020	0.00013	1	04/16/23 22:30	04/18/23 19:11	7440-47-3	
Cobalt	**0.0027**	mg/L	0.0010	0.000032	1	04/16/23 22:30	04/18/23 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.000034	1	04/16/23 22:30	04/18/23 19:11	7439-92-1	
Molybdenum	**0.018**	mg/L	0.0010	0.000048	1	04/16/23 22:30	04/18/23 19:11	7439-98-7	
Selenium	**0.011**	mg/L	0.0010	0.00023	1	04/16/23 22:30	04/18/23 19:11	7782-49-2	
Thallium	**0.000096J**	mg/L	0.0010	0.000033	1	04/16/23 22:30	04/18/23 19:11	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	ug/L	0.20	0.12	1	04/20/23 19:07	04/21/23 09:21	7439-97-6	F5
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	**471**	mg/L	10.0	10.0	1		04/19/23 08:39		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		04/26/23 13:06		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-01B-041323 **Lab ID: 50342144002** Collected: 04/13/23 12:50 Received: 04/14/23 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	**23.9**	mg/L	0.25	0.067	1		04/26/23 17:04	16887-00-6	
Fluoride	**0.17**	mg/L	0.050	0.017	1		04/26/23 17:04	16984-48-8	
Sulfate	**66.1**	mg/L	2.5	0.85	10		04/26/23 17:23	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	**0.34**	mg/L	0.10	0.038	1	04/25/23 07:35	04/26/23 10:42	7440-42-8	
Calcium	**107**	mg/L	1.0	0.16	1	04/25/23 07:35	04/26/23 10:42	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 07:35	04/26/23 10:42	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	**0.000080J**	mg/L	0.0010	0.000036	1	04/16/23 22:30	04/18/23 19:20	7440-36-0	
Arsenic	**0.00030J**	mg/L	0.0010	0.000053	1	04/16/23 22:30	04/18/23 19:20	7440-38-2	
Barium	**0.19**	mg/L	0.0020	0.00010	2	04/16/23 22:30	04/19/23 18:11	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/16/23 22:30	04/18/23 19:20	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/16/23 22:30	04/18/23 19:20	7440-43-9	
Chromium	**0.00045J**	mg/L	0.0020	0.00013	1	04/16/23 22:30	04/18/23 19:20	7440-47-3	
Cobalt	**0.00024J**	mg/L	0.0010	0.000032	1	04/16/23 22:30	04/18/23 19:20	7440-48-4	
Lead	**0.000040J**	mg/L	0.0010	0.000034	1	04/16/23 22:30	04/18/23 19:20	7439-92-1	
Molybdenum	**0.0011**	mg/L	0.0010	0.000048	1	04/16/23 22:30	04/18/23 19:20	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	04/16/23 22:30	04/18/23 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/16/23 22:30	04/18/23 19:20	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	ug/L	0.20	0.12	1	04/20/23 19:07	04/21/23 09:24	7439-97-6	F5
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	**472**	mg/L	10.0	10.0	1		04/19/23 08:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		04/27/23 08:27		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-03-041423 **Lab ID: 50342290001** Collected: 04/14/23 13:05 Received: 04/17/23 08:00 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	**2.8**	mg/L	0.25	0.067	1		04/29/23 00:55	16887-00-6	
Fluoride	**0.22**	mg/L	0.050	0.017	1		04/29/23 00:55	16984-48-8	
Sulfate	**101**	mg/L	2.5	0.85	10		04/29/23 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	**0.25**	mg/L	0.10	0.038	1	04/25/23 15:19	04/26/23 12:30	7440-42-8	
Calcium	**95.4**	mg/L	1.0	0.16	1	04/25/23 15:19	04/26/23 12:30	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 15:19	04/26/23 12:30	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	**0.00056J**	mg/L	0.0010	0.000080	1	04/23/23 21:30	04/26/23 08:22	7440-36-0	
Arsenic	**0.0027**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 08:22	7440-38-2	
Barium	**0.082**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 08:22	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 08:22	7440-41-7	
Cadmium	**0.000070J**	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 08:22	7440-43-9	
Chromium	**0.00039J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 08:22	7440-47-3	
Cobalt	**0.0015**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 08:22	7440-48-4	
Lead	**0.00016J**	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 08:22	7439-92-1	
Molybdenum	**0.010**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 08:22	7439-98-7	
Selenium	**0.00072J**	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 08:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 08:22	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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:01	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	**403**	mg/L	10.0	10.0	1		04/19/23 16:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.6**	Std. Units	0.10	0.10	1		04/27/23 08:49		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-03B-041423 **Lab ID: 50342290002** Collected: 04/14/23 14:30 Received: 04/17/23 08:00 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	**25.0**	mg/L	2.5	0.67	10		04/29/23 01:53	16887-00-6	
Fluoride	**0.19**	mg/L	0.050	0.017	1		04/29/23 01:34	16984-48-8	
Sulfate	**111**	mg/L	2.5	0.85	10		04/29/23 01:53	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	04/25/23 15:19	04/26/23 12:33	7440-42-8	
Calcium	**102**	mg/L	1.0	0.16	1	04/25/23 15:19	04/26/23 12:33	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 15:19	04/26/23 12:33	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	**0.000086J**	mg/L	0.0010	0.000080	1	04/23/23 21:30	04/26/23 08:49	7440-36-0	
Arsenic	**0.00043J**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 08:49	7440-38-2	
Barium	**0.11**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 08:49	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 08:49	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 08:49	7440-43-9	
Chromium	**0.00044J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 08:49	7440-47-3	
Cobalt	**0.00041J**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 08:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 08:49	7439-92-1	
Molybdenum	**0.0065**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 08:49	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 08:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:03	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	**465**	mg/L	10.0	10.0	1		04/19/23 16:53		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.5**	Std. Units	0.10	0.10	1		04/27/23 08:49		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-12-041423 **Lab ID: 50342290003** Collected: 04/14/23 12:00 Received: 04/17/23 08:00 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	**3.7**	mg/L	0.25	0.067	1		04/29/23 02:13	16887-00-6	
Fluoride	**0.19**	mg/L	0.050	0.017	1		04/29/23 02:13	16984-48-8	
Sulfate	**15.6**	mg/L	0.25	0.085	1		04/29/23 02:13	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	**0.062J**	mg/L	0.10	0.038	1	04/25/23 15:19	04/26/23 12:35	7440-42-8	
Calcium	**87.9**	mg/L	1.0	0.16	1	04/25/23 15:19	04/26/23 12:35	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 15:19	04/26/23 12:35	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	**0.00010J**	mg/L	0.0010	0.000080	1	04/23/23 21:30	04/26/23 08:53	7440-36-0	
Arsenic	**0.010**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 08:53	7440-38-2	
Barium	**0.087**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 08:53	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 08:53	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 08:53	7440-43-9	
Chromium	**0.00043J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 08:53	7440-47-3	
Cobalt	**0.0022**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 08:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 08:53	7439-92-1	
Molybdenum	**0.0046**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 08:53	7439-98-7	
Selenium	**0.00038J**	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 08:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 08:53	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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:06	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	**345**	mg/L	10.0	10.0	1		04/19/23 16:53		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		04/27/23 08:48		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-12B-041423 **Lab ID: 50342290004** Collected: 04/14/23 14:30 Received: 04/17/23 08:00 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	**23.9**	mg/L	2.5	0.67	10		04/29/23 03:11	16887-00-6	
Fluoride	**0.094J**	mg/L	0.050	0.017	1		04/29/23 02:52	16984-48-8	
Sulfate	**113**	mg/L	2.5	0.85	10		04/29/23 03:11	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	**0.46**	mg/L	0.10	0.038	1	04/25/23 15:19	04/26/23 12:37	7440-42-8	
Calcium	**95.4**	mg/L	1.0	0.16	1	04/25/23 15:19	04/26/23 12:37	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 15:19	04/26/23 12:37	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	ND	mg/L	0.0010	0.000080	1	04/23/23 21:30	04/26/23 08:56	7440-36-0	
Arsenic	**0.00041J**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 08:56	7440-38-2	
Barium	**0.14**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 08:56	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 08:56	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 08:56	7440-43-9	
Chromium	**0.00030J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 08:56	7440-47-3	
Cobalt	**0.00019J**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 08:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 08:56	7439-92-1	
Molybdenum	**0.0027**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 08:56	7439-98-7	
Selenium	**0.00022J**	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 08:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:08	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	**448**	mg/L	10.0	10.0	1		04/19/23 16:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.6**	Std. Units	0.10	0.10	1		04/27/23 08:50		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-13-041423 **Lab ID: 50342290005** Collected: 04/14/23 09:45 Received: 04/17/23 08:00 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	**2.4**	mg/L	0.25	0.067	1		04/29/23 04:10	16887-00-6	
Fluoride	**0.23**	mg/L	0.050	0.017	1		04/29/23 04:10	16984-48-8	
Sulfate	**18.0**	mg/L	0.25	0.085	1		04/29/23 04:10	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	**0.054J**	mg/L	0.10	0.038	1	04/25/23 15:19	04/26/23 12:44	7440-42-8	
Calcium	**61.4**	mg/L	1.0	0.16	1	04/25/23 15:19	04/26/23 12:44	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 15:19	04/26/23 12:44	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	**0.00075J**	mg/L	0.0010	0.000080	1	04/23/23 21:30	04/26/23 09:06	7440-36-0	
Arsenic	**0.0030**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 09:06	7440-38-2	
Barium	**0.066**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 09:06	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 09:06	7440-41-7	
Cadmium	**0.000069J**	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 09:06	7440-43-9	
Chromium	**0.00044J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 09:06	7440-47-3	
Cobalt	**0.00024J**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 09:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 09:06	7439-92-1	
Molybdenum	**0.0041**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 09:06	7439-98-7	
Selenium	**0.00039J**	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 09:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:10	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	**217**	mg/L	10.0	10.0	1		04/20/23 09:54		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.7**	Std. Units	0.10	0.10	1		04/27/23 08:47		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-13B-041423 **Lab ID: 50342290006** Collected: 04/14/23 11:50 Received: 04/17/23 08:00 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	**27.4**	mg/L	2.5	0.67	10		04/29/23 05:08	16887-00-6	
Fluoride	**0.27**	mg/L	0.050	0.017	1		04/29/23 04:48	16984-48-8	
Sulfate	**116**	mg/L	2.5	0.85	10		04/29/23 05:08	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	**0.62**	mg/L	0.10	0.038	1	04/25/23 15:19	04/26/23 12:46	7440-42-8	
Calcium	**77.0**	mg/L	1.0	0.16	1	04/25/23 15:19	04/26/23 12:46	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 15:19	04/26/23 12:46	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	04/23/23 21:30	04/26/23 09:10	7440-36-0	
Arsenic	**0.0016**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 09:10	7440-38-2	
Barium	**0.087**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 09:10	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 09:10	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 09:10	7440-43-9	
Chromium	**0.00047J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 09:10	7440-47-3	
Cobalt	**0.00015J**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 09:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 09:10	7439-92-1	
Molybdenum	**0.014**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 09:10	7439-98-7	
Selenium	**0.00021J**	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 09:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 09:10	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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:13	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		04/20/23 09:55		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.8**	Std. Units	0.10	0.10	1		04/27/23 08:47		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-51-041523 **Lab ID: 50342402001** Collected: 04/15/23 15:45 Received: 04/18/23 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	**2.3**	mg/L	0.25	0.067	1		04/28/23 12:51	16887-00-6	
Fluoride	**0.32**	mg/L	0.050	0.017	1		04/28/23 12:51	16984-48-8	
Sulfate	**173**	mg/L	2.5	0.85	10		04/28/23 13:09	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	0.038	1	04/25/23 16:10	04/26/23 13:21	7440-42-8	
Calcium	**131**	mg/L	1.0	0.16	1	04/25/23 16:10	04/26/23 13:21	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 16:10	04/26/23 13:21	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	**0.00013J**	mg/L	0.0010	0.000080	1	04/23/23 21:30	04/26/23 09:13	7440-36-0	
Arsenic	**0.0015**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 09:13	7440-38-2	
Barium	**0.089**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 09:13	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 09:13	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 09:13	7440-43-9	
Chromium	**0.00036J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 09:13	7440-47-3	
Cobalt	**0.0042**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 09:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 09:13	7439-92-1	
Molybdenum	**0.0074**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 09:13	7439-98-7	
Selenium	**0.00035J**	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 09:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:25	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	**523**	mg/L	10.0	10.0	1		04/20/23 09:55		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		04/27/23 09:47		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-51B-041523 **Lab ID: 50342402002** Collected: 04/15/23 16:50 Received: 04/18/23 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	**46.5**	mg/L	2.5	0.67	10		04/28/23 13:46	16887-00-6	
Fluoride	**1.0**	mg/L	0.050	0.017	1		04/28/23 13:27	16984-48-8	
Sulfate	**1230**	mg/L	25.0	8.5	100		04/29/23 21:30	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	**7.1**	mg/L	0.10	0.038	1	04/25/23 16:10	04/26/23 13:24	7440-42-8	
Calcium	**209**	mg/L	2.0	0.33	2	04/25/23 16:10	04/26/23 15:10	7440-70-2	
Lithium	**0.066**	mg/L	0.010	0.0062	1	04/25/23 16:10	04/26/23 13:24	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	**0.000087J**	mg/L	0.0010	0.000080	1	04/23/23 21:30	04/26/23 09:17	7440-36-0	
Arsenic	**0.0041**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 09:17	7440-38-2	
Barium	**0.056**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 09:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 09:17	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 09:17	7440-43-9	
Chromium	**0.00059J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 09:17	7440-47-3	
Cobalt	**0.00032J**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 09:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 09:17	7439-92-1	
Molybdenum	**0.13**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 09:17	7439-98-7	
Selenium	**0.00048J**	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 09:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 09:17	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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	**1930**	mg/L	40.0	40.0	1		04/20/23 09:56		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.7**	Std. Units	0.10	0.10	1		04/27/23 09:50		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-59-041523 **Lab ID: 50342402003** Collected: 04/15/23 18:10 Received: 04/18/23 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	**2.5**	mg/L	0.25	0.067	1		04/28/23 14:04	16887-00-6	
Fluoride	**0.70**	mg/L	0.050	0.017	1		04/28/23 14:04	16984-48-8	
Sulfate	**554**	mg/L	25.0	8.5	100		04/29/23 21:49	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	**0.61**	mg/L	0.10	0.038	1	04/25/23 16:10	04/26/23 13:26	7440-42-8	
Calcium	**256**	mg/L	2.0	0.33	2	04/25/23 16:10	04/26/23 14:49	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/25/23 16:10	04/26/23 13:26	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	**0.000086J**	mg/L	0.0010	0.000080	1	04/23/23 21:30	04/26/23 09:20	7440-36-0	
Arsenic	**0.00083J**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 09:20	7440-38-2	
Barium	**0.079**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 09:20	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 09:20	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 09:20	7440-43-9	
Chromium	**0.00029J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 09:20	7440-47-3	
Cobalt	**0.0010**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 09:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 09:20	7439-92-1	
Molybdenum	**0.028**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 09:20	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 09:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 09:20	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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:30	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	**1020**	mg/L	20.0	20.0	1		04/20/23 09:56		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		04/27/23 09:51		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-59B-041523 **Lab ID: 50342402004** Collected: 04/15/23 19:05 Received: 04/18/23 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	**66.4**	mg/L	2.5	0.67	10		04/28/23 15:58	16887-00-6	
Fluoride	**0.50**	mg/L	0.050	0.017	1		04/28/23 14:41	16984-48-8	
Sulfate	**858**	mg/L	25.0	8.5	100		04/29/23 22:07	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	**5.7**	mg/L	0.10	0.038	1	04/25/23 16:10	04/26/23 13:28	7440-42-8	
Calcium	**155**	mg/L	1.0	0.16	1	04/25/23 16:10	04/26/23 13:28	7440-70-2	
Lithium	**0.010**	mg/L	0.010	0.0062	1	04/25/23 16:10	04/26/23 13:28	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	04/23/23 21:30	04/26/23 09:24	7440-36-0	
Arsenic	**0.00090J**	mg/L	0.0010	0.00012	1	04/23/23 21:30	04/26/23 09:24	7440-38-2	
Barium	**0.031**	mg/L	0.0010	0.000065	1	04/23/23 21:30	04/26/23 09:24	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/23/23 21:30	04/26/23 09:24	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/23/23 21:30	04/26/23 09:24	7440-43-9	
Chromium	**0.00060J**	mg/L	0.0020	0.00018	1	04/23/23 21:30	04/26/23 09:24	7440-47-3	
Cobalt	**0.00034J**	mg/L	0.0010	0.000071	1	04/23/23 21:30	04/26/23 09:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/23/23 21:30	04/26/23 09:24	7439-92-1	
Molybdenum	**0.080**	mg/L	0.0010	0.000074	1	04/23/23 21:30	04/26/23 09:24	7439-98-7	
Selenium	**0.00030J**	mg/L	0.0010	0.00019	1	04/23/23 21:30	04/26/23 09:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/23/23 21:30	04/26/23 09:24	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	ug/L	0.20	0.091	1	04/26/23 09:40	04/26/23 22:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	**1670**	mg/L	40.0	40.0	1		04/21/23 08:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.6**	Std. Units	0.10	0.10	1		04/27/23 09:52		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-09-041923 **Lab ID: 50342608001** Collected: 04/19/23 10:20 Received: 04/20/23 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	**28.5**	mg/L	2.5	0.67	10		04/29/23 17:27	16887-00-6	
Fluoride	**0.25**	mg/L	0.050	0.017	1		04/29/23 17:09	16984-48-8	
Sulfate	**416**	mg/L	2.5	0.85	10		04/29/23 17:27	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	**2.3**	mg/L	0.10	0.038	1	04/28/23 07:45	04/29/23 14:27	7440-42-8	
Calcium	**175**	mg/L	1.0	0.16	1	04/28/23 07:45	04/29/23 14:27	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/28/23 07:45	04/29/23 14:27	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	**0.00013J**	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 18:19	7440-36-0	
Arsenic	**0.00019J**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 18:19	7440-38-2	
Barium	**0.053**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 18:19	7440-39-3	
Beryllium	**0.00082**	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/27/23 18:19	7440-41-7	
Cadmium	**0.00025**	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 18:19	7440-43-9	
Chromium	**0.00085J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 18:19	7440-47-3	
Cobalt	**0.0015**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 18:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 18:19	7439-92-1	
Molybdenum	**0.031**	mg/L	0.0020	0.00015	2	04/25/23 21:44	04/28/23 04:17	7439-98-7	
Selenium	**0.0050**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 18:19	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	ug/L	0.20	0.091	1	05/02/23 10:25	05/02/23 16:21	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	**778**	mg/L	10.0	10.0	1		04/25/23 11:31		
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		05/02/23 15:32		H3

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(317)228-3100

ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-09B-041923 **Lab ID: 50342608002** Collected: 04/19/23 12:05 Received: 04/20/23 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	**100**	mg/L	2.5	0.67	10		04/29/23 18:23	16887-00-6	
Fluoride	**0.84**	mg/L	0.050	0.017	1		04/29/23 18:04	16984-48-8	
Sulfate	**756**	mg/L	25.0	8.5	100		04/29/23 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	**7.7**	mg/L	0.10	0.038	1	04/28/23 07:45	04/29/23 14:29	7440-42-8	
Calcium	**249**	mg/L	2.0	0.33	2	04/28/23 07:45	04/29/23 15:01	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/28/23 07:45	04/29/23 14:29	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	ND	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 18:22	7440-36-0	
Arsenic	**0.0023**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 18:22	7440-38-2	
Barium	**0.045**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 18:22	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/27/23 18:22	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 18:22	7440-43-9	
Chromium	**0.00024J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 18:22	7440-47-3	
Cobalt	**0.00071J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 18:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 18:22	7439-92-1	
Molybdenum	**0.015**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 18:22	7439-98-7	
Selenium	**0.00024J**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 18:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 18:22	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	ug/L	0.20	0.091	1	05/02/23 10:25	05/02/23 16:23	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	**1370**	mg/L	20.0	20.0	1		04/25/23 11:41		
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		05/02/23 15:34		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-17-041923 **Lab ID: 50342608003** Collected: 04/19/23 13:40 Received: 04/20/23 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	**125**	mg/L	2.5	0.67	10		04/29/23 20:13	16887-00-6	
Fluoride	**1.2**	mg/L	0.050	0.017	1		04/29/23 19:55	16984-48-8	
Sulfate	**559**	mg/L	25.0	8.5	100		04/29/23 20:32	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	**11.2**	mg/L	0.10	0.038	1	04/28/23 07:45	04/29/23 14:31	7440-42-8	
Calcium	**260**	mg/L	2.0	0.33	2	04/28/23 07:45	04/29/23 15:04	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/28/23 07:45	04/29/23 14:31	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	**0.00021J**	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 18:26	7440-36-0	
Arsenic	**0.0017**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 18:26	7440-38-2	
Barium	**0.070**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 18:26	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/27/23 18:26	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 18:26	7440-43-9	
Chromium	**0.00039J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 18:26	7440-47-3	
Cobalt	**0.00033J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 18:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 18:26	7439-92-1	
Molybdenum	**0.010**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 18:26	7439-98-7	
Selenium	**0.0016**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 18:26	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	ug/L	0.20	0.091	1	05/02/23 10:25	05/02/23 16:26	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	**1160**	mg/L	20.0	20.0	1		04/25/23 11:41		
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		05/02/23 15:35		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-18-041923 **Lab ID: 50342608004** Collected: 04/19/23 13:40 Received: 04/20/23 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	**44.6**	mg/L	2.5	0.67	10		04/29/23 21:08	16887-00-6	
Fluoride	**0.12**	mg/L	0.050	0.017	1		04/29/23 20:50	16984-48-8	
Sulfate	**1230**	mg/L	25.0	8.5	100		04/29/23 21:27	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	**3.5**	mg/L	0.10	0.038	1	04/28/23 07:45	04/29/23 14:34	7440-42-8	
Calcium	**480**	mg/L	5.0	0.82	5	04/28/23 07:45	04/29/23 15:06	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/28/23 07:45	04/29/23 14:34	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	**0.00012J**	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 18:29	7440-36-0	
Arsenic	**0.00095J**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 18:29	7440-38-2	
Barium	**0.040**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 18:29	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/27/23 18:29	7440-41-7	
Cadmium	**0.000091J**	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 18:29	7440-43-9	
Chromium	**0.00097J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 18:29	7440-47-3	
Cobalt	**0.00096J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 18:29	7440-48-4	
Lead	**0.00068J**	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 18:29	7439-92-1	
Molybdenum	**0.16**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 18:29	7439-98-7	
Selenium	**0.063**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 18:29	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	ug/L	0.20	0.091	1	05/02/23 10:25	05/02/23 16:33	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	**2060**	mg/L	20.0	20.0	1		04/25/23 11:41		
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		05/02/23 15:37		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: FD-01-041923 **Lab ID: 50342608005** Collected: 04/19/23 12:00 Received: 04/20/23 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	**103**	mg/L	2.5	0.67	10		04/29/23 22:04	16887-00-6	
Fluoride	**0.85**	mg/L	0.050	0.017	1		04/29/23 21:45	16984-48-8	
Sulfate	**734**	mg/L	25.0	8.5	100		04/29/23 22:22	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	**7.9**	mg/L	0.10	0.038	1	04/28/23 07:45	04/29/23 14:36	7440-42-8	
Calcium	**252**	mg/L	2.0	0.33	2	04/28/23 07:45	04/29/23 15:08	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/28/23 07:45	04/29/23 14:36	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	ND	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 18:43	7440-36-0	
Arsenic	**0.0022**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 18:43	7440-38-2	
Barium	**0.044**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 18:43	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/27/23 18:43	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 18:43	7440-43-9	
Chromium	**0.00022J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 18:43	7440-47-3	
Cobalt	**0.00069J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 18:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 18:43	7439-92-1	
Molybdenum	**0.015**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 18:43	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 18:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 18:43	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	ug/L	0.20	0.091	1	05/02/23 10:25	05/02/23 16:35	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	**1360**	mg/L	20.0	20.0	1		04/25/23 11:42		
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		05/02/23 15:40		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: FB-01-041923 **Lab ID: 50342608006** Collected: 04/19/23 13:45 Received: 04/20/23 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	**0.086J**	mg/L	0.25	0.067	1		04/29/23 23:17	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		04/29/23 23:17	16984-48-8	
Sulfate	ND	mg/L	0.25	0.085	1		04/29/23 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	0.038	1	04/28/23 07:45	04/29/23 14:39	7440-42-8	
Calcium	ND	mg/L	1.0	0.16	1	04/28/23 07:45	04/29/23 14:39	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	04/28/23 07:45	04/29/23 14:39	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	0.000080	1	04/25/23 21:44	04/27/23 18:46	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 18:46	7440-38-2	
Barium	**0.0011**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 18:46	7440-39-3	C0
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/27/23 18:46	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 18:46	7440-43-9	
Chromium	**0.00028J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 18:46	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 18:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 18:46	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 18:46	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 18:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 18:46	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	ug/L	0.20	0.091	1	05/02/23 10:25	05/02/23 16:43	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		04/25/23 11:42		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.7**	Std. Units	0.10	0.10	1		05/02/23 15:41		H3

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-17B-042023 **Lab ID: 50342776001** Collected: 04/20/23 10:25 Received: 04/21/23 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	**134**	mg/L	2.5	0.67	10		04/30/23 02:40	16887-00-6	
Fluoride	**0.56**	mg/L	0.050	0.017	1		04/30/23 02:22	16984-48-8	
Sulfate	**553**	mg/L	25.0	8.5	100		04/30/23 02:59	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	**9.8**	mg/L	0.10	0.038	1	05/02/23 08:33	05/03/23 13:17	7440-42-8	
Calcium	**225**	mg/L	2.0	0.33	2	05/02/23 08:33	05/03/23 14:09	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/02/23 08:33	05/03/23 13:17	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	04/25/23 21:44	04/27/23 18:50	7440-36-0	
Arsenic	**0.0031**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 18:50	7440-38-2	
Barium	**0.064**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 18:50	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/27/23 18:50	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 18:50	7440-43-9	
Chromium	**0.00029J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 18:50	7440-47-3	
Cobalt	**0.00028J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 18:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 18:50	7439-92-1	
Molybdenum	**0.013**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 18:50	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 18:50	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 08:45	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	**1320**	mg/L	20.0	20.0	1		04/26/23 09:02		
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		05/05/23 11:47		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-18B-042023 **Lab ID: 50342776002** Collected: 04/20/23 10:05 Received: 04/21/23 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	**138**	mg/L	2.5	0.67	10		04/30/23 06:03	16887-00-6	
Fluoride	**1.1**	mg/L	0.050	0.017	1		04/30/23 05:44	16984-48-8	
Sulfate	**705**	mg/L	25.0	8.5	100		04/30/23 06:21	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	**11.3**	mg/L	0.10	0.038	1	05/02/23 08:33	05/03/23 13:32	7440-42-8	
Calcium	**332**	mg/L	2.0	0.33	2	05/02/23 08:33	05/03/23 14:16	7440-70-2	
Lithium	**0.021**	mg/L	0.010	0.0062	1	05/02/23 08:33	05/03/23 13:32	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	0.000080	1	04/25/23 21:44	04/27/23 19:13	7440-36-0	
Arsenic	**0.0021**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:13	7440-38-2	
Barium	**0.030**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:13	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/27/23 19:13	7440-41-7	
Cadmium	**0.000017J**	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:13	7440-43-9	
Chromium	**0.00033J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 19:13	7440-47-3	
Cobalt	**0.00044J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:13	7439-92-1	
Molybdenum	**0.0097**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 19:13	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:13	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:00	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	**1990**	mg/L	20.0	20.0	1		04/26/23 09:03		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		05/05/23 11:49		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-60-042023 **Lab ID: 50342776003** Collected: 04/20/23 11:15 Received: 04/21/23 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	**13.9**	mg/L	0.25	0.067	1		04/30/23 07:17	16887-00-6	
Fluoride	**0.50**	mg/L	0.050	0.017	1		04/30/23 07:17	16984-48-8	
Sulfate	**826**	mg/L	25.0	8.5	100		04/30/23 07:53	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	0.038	1	05/02/23 08:33	05/03/23 13:35	7440-42-8	
Calcium	**385**	mg/L	3.0	0.49	3	05/02/23 08:33	05/03/23 14:18	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/02/23 08:33	05/03/23 13:35	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	**0.00016J**	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 19:27	7440-36-0	
Arsenic	**0.00035J**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:27	7440-38-2	
Barium	**0.030**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:27	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:09	7440-41-7	
Cadmium	**0.000040J**	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:27	7440-43-9	
Chromium	**0.00036J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/28/23 08:09	7440-47-3	
Cobalt	**0.0015**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:27	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:27	7439-92-1	
Molybdenum	**0.014**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 19:27	7439-98-7	
Selenium	**0.0055**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:27	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:02	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	**1480**	mg/L	20.0	20.0	1		04/26/23 09:09		
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		05/05/23 11:50		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-60B-042023 **Lab ID: 50342776004** Collected: 04/20/23 12:25 Received: 04/21/23 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	**12.1**	mg/L	0.25	0.067	1		04/30/23 08:12	16887-00-6	
Fluoride	**0.54**	mg/L	0.050	0.017	1		04/30/23 08:12	16984-48-8	
Sulfate	**1050**	mg/L	25.0	8.5	100		04/30/23 08:49	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	**7.1**	mg/L	0.10	0.038	1	05/02/23 08:33	05/03/23 13:37	7440-42-8	
Calcium	**402**	mg/L	3.0	0.49	3	05/02/23 08:33	05/03/23 14:48	7440-70-2	
Lithium	**0.077**	mg/L	0.010	0.0062	1	05/02/23 08:33	05/03/23 13:37	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	ND	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 19:31	7440-36-0	
Arsenic	**0.00020J**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:31	7440-38-2	
Barium	**0.066**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:31	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:05	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:31	7440-43-9	
Chromium	**0.00044J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/28/23 08:05	7440-47-3	
Cobalt	**0.00054J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:31	7439-92-1	
Molybdenum	**0.24**	mg/L	0.0020	0.00015	2	04/25/23 21:44	04/28/23 04:24	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:31	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:05	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	**1880**	mg/L	20.0	20.0	1		04/26/23 09:09		
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		05/05/23 11:51		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-16R-042023 **Lab ID: 50342776005** Collected: 04/20/23 13:55 Received: 04/21/23 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	**41.7**	mg/L	2.5	0.67	10		04/30/23 09:26	16887-00-6	
Fluoride	**0.58**	mg/L	0.050	0.017	1		04/30/23 09:07	16984-48-8	
Sulfate	**549**	mg/L	25.0	8.5	100		04/30/23 09:44	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	**2.9**	mg/L	0.10	0.038	1	05/02/23 08:33	05/03/23 13:39	7440-42-8	
Calcium	**256**	mg/L	2.0	0.33	2	05/02/23 08:33	05/03/23 14:50	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/02/23 08:33	05/03/23 13:39	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	0.000080	1	04/25/23 21:44	04/27/23 19:34	7440-36-0	
Arsenic	**0.0050**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:34	7440-38-2	
Barium	**0.042**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:34	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:12	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:34	7440-43-9	
Chromium	**0.00024J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/28/23 08:12	7440-47-3	
Cobalt	**0.0026**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:34	7439-92-1	
Molybdenum	**0.053**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 19:34	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:34	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:07	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	**1080**	mg/L	20.0	20.0	1		04/26/23 09:10		
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		05/05/23 11:51		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: FD-02-042023 **Lab ID: 50342776006** Collected: 04/20/23 12:00 Received: 04/21/23 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	**13.8**	mg/L	0.25	0.067	1		04/30/23 10:39	16887-00-6	
Fluoride	**0.50**	mg/L	0.050	0.017	1		04/30/23 10:39	16984-48-8	
Sulfate	**859**	mg/L	25.0	8.5	100		04/30/23 11:16	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	**1.2**	mg/L	0.10	0.038	1	05/02/23 08:33	05/03/23 13:41	7440-42-8	
Calcium	**389**	mg/L	3.0	0.49	3	05/02/23 08:33	05/03/23 14:53	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/02/23 08:33	05/03/23 13:41	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	**0.00015J**	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 19:37	7440-36-0	
Arsenic	**0.00038J**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:37	7440-38-2	
Barium	**0.030**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:37	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:15	7440-41-7	
Cadmium	**0.000040J**	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:37	7440-43-9	
Chromium	**0.00029J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/28/23 08:15	7440-47-3	
Cobalt	**0.0016**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:37	7439-92-1	
Molybdenum	**0.014**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 19:37	7439-98-7	
Selenium	**0.0057**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:37	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:09	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	**1490**	mg/L	20.0	20.0	1		04/26/23 09:10		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		05/05/23 11:53		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: FB-02-042023 **Lab ID: 50342776007** Collected: 04/20/23 12:30 Received: 04/21/23 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	**0.071J**	mg/L	0.25	0.067	1		04/30/23 11:35	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		04/30/23 11:35	16984-48-8	
Sulfate	ND	mg/L	0.25	0.085	1		04/30/23 11:35	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	ND	mg/L	0.10	0.038	1	05/02/23 08:33	05/03/23 13:44	7440-42-8	
Calcium	ND	mg/L	1.0	0.16	1	05/02/23 08:33	05/03/23 13:44	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/02/23 08:33	05/03/23 13:44	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	04/25/23 21:44	04/27/23 19:48	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:48	7440-38-2	
Barium	**0.00086J**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:48	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:19	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:48	7440-43-9	
Chromium	**0.00029J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/28/23 08:19	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:48	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 19:48	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:48	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:12	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	ND	mg/L	10.0	10.0	1		04/26/23 09:10		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.3**	Std. Units	0.10	0.10	1		05/05/23 11:55		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-08-042123 **Lab ID: 50342909001** Collected: 04/21/23 09:55 Received: 04/22/23 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	**62.7**	mg/L	2.5	0.67	10		05/04/23 06:55	16887-00-6	
Fluoride	**1.8**	mg/L	0.050	0.017	1		05/04/23 06:38	16984-48-8	
Sulfate	**550**	mg/L	25.0	8.5	100		05/04/23 17:59	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	**1.5**	mg/L	0.10	0.061	1	05/03/23 09:40	05/04/23 10:11	7440-42-8	
Calcium	**298**	mg/L	2.0	0.18	2	05/03/23 09:40	05/04/23 11:38	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/03/23 09:40	05/05/23 10:06	7439-93-2	2d
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	**0.00064J**	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 19:51	7440-36-0	
Arsenic	**0.0023**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:51	7440-38-2	
Barium	**0.047**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:51	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:33	7440-41-7	
Cadmium	**0.00011J**	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:51	7440-43-9	
Chromium	**0.00048J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/28/23 08:33	7440-47-3	
Cobalt	**0.0032**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:51	7439-92-1	
Molybdenum	**0.065**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 19:51	7439-98-7	
Selenium	**0.017**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:51	7782-49-2	
Thallium	**0.000067J**	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:51	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:19	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	**1480**	mg/L	20.0	20.0	1		04/27/23 09:09		
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		05/08/23 12:59		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-08B-042123 **Lab ID: 50342909002** Collected: 04/21/23 10:50 Received: 04/22/23 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	**187**	mg/L	2.5	0.67	10		05/04/23 18:17	16887-00-6	
Fluoride	**1.3**	mg/L	0.050	0.017	1		05/04/23 07:12	16984-48-8	
Sulfate	**1060**	mg/L	25.0	8.5	100		05/04/23 18:34	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	**11.7**	mg/L	0.10	0.061	1	05/03/23 09:40	05/04/23 10:18	7440-42-8	
Calcium	**230**	mg/L	2.0	0.18	2	05/03/23 09:40	05/04/23 11:45	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/03/23 09:40	05/04/23 10:18	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	04/25/23 21:44	04/27/23 19:55	7440-36-0	
Arsenic	**0.00031J**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:55	7440-38-2	
Barium	**0.055**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:55	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:36	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:55	7440-43-9	
Chromium	**0.00023J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/28/23 08:36	7440-47-3	
Cobalt	**0.00038J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:55	7439-92-1	
Molybdenum	**0.011**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 19:55	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:55	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:27	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	**2050**	mg/L	20.0	20.0	1		04/27/23 09:09		
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		05/08/23 13:01		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-16BR-042123 **Lab ID: 50342909003** Collected: 04/21/23 09:40 Received: 04/22/23 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	**392**	mg/L	25.0	6.7	100		05/04/23 19:26	16887-00-6	
Fluoride	**0.63**	mg/L	0.050	0.017	1		05/04/23 07:47	16984-48-8	
Sulfate	**2360**	mg/L	25.0	8.5	100		05/04/23 19:26	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	**22.3**	mg/L	0.10	0.061	1	05/03/23 09:40	05/04/23 10:20	7440-42-8	
Calcium	**522**	mg/L	5.0	0.44	5	05/03/23 09:40	05/04/23 11:47	7440-70-2	
Lithium	**0.021**	mg/L	0.010	0.0062	1	05/03/23 09:40	05/05/23 10:08	7439-93-2	2d
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	04/25/23 21:44	04/27/23 19:58	7440-36-0	
Arsenic	**0.0016**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 19:58	7440-38-2	
Barium	**0.053**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 19:58	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:40	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 19:58	7440-43-9	
Chromium	**0.00056J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/28/23 08:40	7440-47-3	
Cobalt	**0.00082J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 19:58	7440-48-4	
Lead	**0.000083J**	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 19:58	7439-92-1	
Molybdenum	**0.012**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 19:58	7439-98-7	
Selenium	**0.00073J**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 19:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 19:58	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	**4420**	mg/L	40.0	40.0	1		04/27/23 09:10		
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		05/08/23 13:02		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-56-042123 **Lab ID: 50342912001** Collected: 04/21/23 10:55 Received: 04/22/23 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	**7.5**	mg/L	0.25	0.067	1		05/04/23 08:22	16887-00-6	
Fluoride	**0.47**	mg/L	0.050	0.017	1		05/04/23 08:22	16984-48-8	
Sulfate	**63.9**	mg/L	2.5	0.85	10		05/04/23 08:40	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	**0.29**	mg/L	0.10	0.061	1	05/03/23 09:40	05/04/23 10:23	7440-42-8	
Calcium	**118**	mg/L	1.0	0.088	1	05/03/23 09:40	05/04/23 10:23	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/03/23 09:40	05/04/23 10:23	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	**0.00017J**	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 20:12	7440-36-0	
Arsenic	**0.0012**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 20:12	7440-38-2	
Barium	**0.045**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 20:12	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:43	7440-41-7	
Cadmium	**0.000039J**	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 20:12	7440-43-9	
Chromium	**0.00028J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 20:12	7440-47-3	
Cobalt	**0.0082**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 20:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 20:12	7439-92-1	
Molybdenum	**0.0077**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 20:12	7439-98-7	
Selenium	**0.0018**	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 20:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 20:12	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:31	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	**478**	mg/L	10.0	10.0	1		04/27/23 09:10		
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		05/08/23 13:03		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-56B-042123 **Lab ID: 50342912002** Collected: 04/21/23 13:30 Received: 04/22/23 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	**67.9**	mg/L	2.5	0.67	10		05/04/23 09:14	16887-00-6	
Fluoride	**0.46**	mg/L	0.050	0.017	1		05/04/23 08:57	16984-48-8	
Sulfate	**330**	mg/L	2.5	0.85	10		05/04/23 09:14	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	**3.1**	mg/L	0.10	0.061	1	05/03/23 09:40	05/04/23 10:25	7440-42-8	
Calcium	**180**	mg/L	1.0	0.088	1	05/03/23 09:40	05/04/23 10:25	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/03/23 09:40	05/04/23 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	ND	mg/L	0.0010	0.000080	1	04/25/23 21:44	04/27/23 20:15	7440-36-0	
Arsenic	**0.0012**	mg/L	0.0010	0.00012	1	04/25/23 21:44	04/27/23 20:15	7440-38-2	
Barium	**0.079**	mg/L	0.0010	0.000065	1	04/25/23 21:44	04/27/23 20:15	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	04/25/23 21:44	04/28/23 08:47	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	04/25/23 21:44	04/27/23 20:15	7440-43-9	
Chromium	**0.00040J**	mg/L	0.0020	0.00018	1	04/25/23 21:44	04/27/23 20:15	7440-47-3	
Cobalt	**0.00026J**	mg/L	0.0010	0.000071	1	04/25/23 21:44	04/27/23 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	04/25/23 21:44	04/27/23 20:15	7439-92-1	
Molybdenum	**0.011**	mg/L	0.0010	0.000074	1	04/25/23 21:44	04/27/23 20:15	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	04/25/23 21:44	04/27/23 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	04/25/23 21:44	04/27/23 20:15	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	ug/L	0.20	0.12	1	04/30/23 21:35	05/01/23 09:34	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	**903**	mg/L	10.0	10.0	1		04/27/23 09:11		
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		05/08/23 13:04		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-53-042423 **Lab ID: 50343032001** Collected: 04/24/23 11:05 Received: 04/25/23 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	**2.0**	mg/L	0.25	0.067	1		05/06/23 08:14	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		05/06/23 08:14	16984-48-8	
Sulfate	**37.2**	mg/L	0.25	0.085	1		05/06/23 08:14	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	**0.083J**	mg/L	0.10	0.061	1	05/03/23 09:40	05/04/23 11:20	7440-42-8	
Calcium	**28.9**	mg/L	1.0	0.088	1	05/03/23 09:40	05/04/23 11:20	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/03/23 09:40	05/04/23 11:20	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	**0.00031J**	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 00:14	7440-36-0	
Arsenic	**0.0011**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 00:14	7440-38-2	
Barium	**0.016**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 00:14	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 00:14	7440-41-7	
Cadmium	**0.000027J**	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 00:14	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 00:14	7440-47-3	
Cobalt	**0.00038J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 00:14	7440-48-4	
Lead	**0.00063J**	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 00:14	7439-92-1	
Molybdenum	**0.0056**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 00:14	7439-98-7	
Selenium	**0.00075J**	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 00:14	7782-49-2	
Thallium	**0.000042J**	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 00:14	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	ug/L	0.20	0.12	1	05/01/23 21:04	05/02/23 11:04	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	**147**	mg/L	10.0	10.0	1		04/28/23 08:32		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.2**	Std. Units	0.10	0.10	1		05/08/23 16:42		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-53B-042423 **Lab ID: 50343032002** Collected: 04/24/23 12:50 Received: 04/25/23 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	**130**	mg/L	2.5	0.67	10		05/06/23 09:32	16887-00-6	
Fluoride	**0.44**	mg/L	0.050	0.017	1		05/06/23 09:13	16984-48-8	
Sulfate	**524**	mg/L	25.0	8.5	100		05/06/23 09:52	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	**5.8**	mg/L	0.10	0.061	1	05/03/23 09:40	05/04/23 11:23	7440-42-8	
Calcium	**225**	mg/L	2.0	0.18	2	05/03/23 09:40	05/04/23 11:50	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/03/23 09:40	05/04/23 11:23	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	0.000036	1	04/30/23 22:14	05/03/23 00:17	7440-36-0	
Arsenic	**0.00080J**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 00:17	7440-38-2	
Barium	**0.084**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 00:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 00:17	7440-41-7	
Cadmium	**0.000017J**	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 00:17	7440-43-9	
Chromium	**0.00024J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 00:17	7440-47-3	
Cobalt	**0.00018J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 00:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 00:17	7439-92-1	
Molybdenum	**0.0077**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 00:17	7439-98-7	
Selenium	**0.00024J**	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 00:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 00:17	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	ug/L	0.20	0.12	1	05/01/23 21:04	05/02/23 11:14	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	**1300**	mg/L	20.0	20.0	1		04/28/23 08:33		
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		05/08/23 16:44		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-52-042523 **Lab ID: 50343172001** Collected: 04/25/23 09:25 Received: 04/26/23 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	**43.0**	mg/L	2.5	0.67	10		05/05/23 04:27	16887-00-6	
Fluoride	**0.41**	mg/L	0.050	0.017	1		05/05/23 04:09	16984-48-8	
Sulfate	**56.4**	mg/L	2.5	0.85	10		05/05/23 04:27	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	**0.062J**	mg/L	0.10	0.061	1	05/04/23 16:45	05/08/23 10:00	7440-42-8	
Calcium	**64.9**	mg/L	1.0	0.088	1	05/04/23 16:45	05/08/23 10:00	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/04/23 16:45	05/08/23 10:00	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	**0.00015J**	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 00:20	7440-36-0	
Arsenic	**0.00015J**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 00:20	7440-38-2	
Barium	**0.012**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 00:20	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 00:20	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 00:20	7440-43-9	
Chromium	**0.00027J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 00:20	7440-47-3	
Cobalt	**0.00011J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 00:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 00:20	7439-92-1	
Molybdenum	**0.0037**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 00:20	7439-98-7	
Selenium	**0.00069J**	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 00:20	7782-49-2	
Thallium	**0.000059J**	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 00:20	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	ug/L	0.20	0.091	1	05/02/23 10:37	05/02/23 17:58	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	**279**	mg/L	10.0	10.0	1		04/29/23 08:22		
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		05/09/23 14:50		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-52B-042523 **Lab ID: 50343172002** Collected: 04/25/23 11:10 Received: 04/26/23 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	**199**	mg/L	2.5	0.67	10		05/06/23 00:11	16887-00-6	
Fluoride	**0.92**	mg/L	0.050	0.017	1		05/05/23 23:51	16984-48-8	
Sulfate	**62.8**	mg/L	2.5	0.85	10		05/06/23 00:11	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	**0.14**	mg/L	0.10	0.061	1	05/04/23 16:45	05/08/23 10:02	7440-42-8	
Calcium	**92.5**	mg/L	1.0	0.088	1	05/04/23 16:45	05/08/23 10:02	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/04/23 16:45	05/08/23 10:02	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	**0.000072J**	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 00:31	7440-36-0	
Arsenic	**0.00050J**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 00:31	7440-38-2	
Barium	**0.11**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 00:31	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 00:31	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 00:31	7440-43-9	
Chromium	**0.00032J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 00:31	7440-47-3	
Cobalt	**0.000077J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 00:31	7440-48-4	
Lead	**0.000036J**	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 00:31	7439-92-1	
Molybdenum	**0.0046**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 00:31	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 00:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 00:31	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	ug/L	0.20	0.091	1	05/02/23 10:37	05/02/23 18:01	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	**540**	mg/L	10.0	10.0	1		04/29/23 08:22		
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		05/09/23 14:51		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: FD-03-042523 **Lab ID: 50343172003** Collected: 04/25/23 12:00 Received: 04/26/23 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	**42.8**	mg/L	2.5	0.67	10		05/05/23 05:19	16887-00-6	
Fluoride	**0.41**	mg/L	0.050	0.017	1		05/05/23 05:01	16984-48-8	
Sulfate	**59.1**	mg/L	2.5	0.85	10		05/05/23 05:19	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	05/04/23 16:45	05/08/23 10:13	7440-42-8	
Calcium	**63.6**	mg/L	1.0	0.088	1	05/04/23 16:45	05/08/23 10:13	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/04/23 16:45	05/08/23 10:13	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	**0.00015J**	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 00:57	7440-36-0	
Arsenic	**0.00015J**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 00:57	7440-38-2	
Barium	**0.012**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 00:57	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 00:57	7440-41-7	
Cadmium	**0.000011J**	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 00:57	7440-43-9	
Chromium	**0.00025J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 00:57	7440-47-3	
Cobalt	**0.00011J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 00:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 00:57	7439-92-1	
Molybdenum	**0.0036**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 00:57	7439-98-7	
Selenium	**0.00086J**	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 00:57	7782-49-2	
Thallium	**0.000058J**	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 00:57	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	ug/L	0.20	0.091	1	05/02/23 10:37	05/02/23 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	**278**	mg/L	10.0	10.0	1		04/29/23 08:23		
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		05/09/23 14:52		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-55B-042623 **Lab ID: 50343254001** Collected: 04/26/23 13:55 Received: 04/27/23 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	**120**	mg/L	2.5	0.67	10		05/07/23 10:27	16887-00-6	
Fluoride	**0.30**	mg/L	0.050	0.017	1		05/07/23 10:07	16984-48-8	
Sulfate	**522**	mg/L	25.0	8.5	100		05/07/23 10:46	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	**7.4**	mg/L	0.10	0.061	1	05/04/23 16:45	05/08/23 10:27	7440-42-8	
Calcium	**191**	mg/L	1.0	0.088	1	05/04/23 16:45	05/08/23 10:27	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/04/23 16:45	05/08/23 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	0.000036	1	04/30/23 22:14	05/03/23 01:01	7440-36-0	
Arsenic	**0.00023J**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 01:01	7440-38-2	
Barium	**0.055**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 01:01	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 01:01	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 01:01	7440-43-9	
Chromium	**0.00027J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 01:01	7440-47-3	
Cobalt	**0.00017J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 01:01	7440-48-4	
Lead	**0.000036J**	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 01:01	7439-92-1	
Molybdenum	**0.0063**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 01:01	7439-98-7	
Selenium	**0.00023J**	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 01:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 01:01	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	ug/L	0.20	0.091	1	05/02/23 10:37	05/02/23 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	**1170**	mg/L	10.0	10.0	1		05/01/23 11:02		
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		05/09/23 15:37		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: FB-03-042623 **Lab ID: 50343254002** Collected: 04/26/23 11:30 Received: 04/27/23 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	ND	mg/L	0.25	0.067	1		05/07/23 11:06	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		05/07/23 11:06	16984-48-8	
Sulfate	ND	mg/L	0.25	0.085	1		05/07/23 11:06	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	05/04/23 16:45	05/08/23 10:30	7440-42-8	
Calcium	ND	mg/L	1.0	0.088	1	05/04/23 16:45	05/08/23 10:30	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/04/23 16:45	05/08/23 10:30	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	ND	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 01:04	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 01:04	7440-38-2	
Barium	**0.0013**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 01:04	7440-39-3	C0
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 01:04	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 01:04	7440-43-9	
Chromium	**0.00018J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 01:04	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 01:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 01:04	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 01:04	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 01:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 01:04	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	ug/L	0.20	0.091	1	05/02/23 10:37	05/02/23 18:23	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	ND	mg/L	10.0	10.0	1		05/01/23 11:03		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.0**	Std. Units	0.10	0.10	1		05/09/23 15:39		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-54-042623 **Lab ID: 50343255001** Collected: 04/26/23 10:05 Received: 04/27/23 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	**26.2**	mg/L	2.5	0.67	10		05/07/23 11:45	16887-00-6	
Fluoride	**0.35**	mg/L	0.050	0.017	1		05/07/23 11:25	16984-48-8	
Sulfate	**273**	mg/L	2.5	0.85	10		05/07/23 11:45	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	**0.58**	mg/L	0.10	0.061	1	05/04/23 16:45	05/08/23 10:32	7440-42-8	
Calcium	**145**	mg/L	1.0	0.088	1	05/04/23 16:45	05/08/23 10:32	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/04/23 16:45	05/08/23 10:32	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	**0.00055J**	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 01:07	7440-36-0	
Arsenic	**0.0094**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 01:07	7440-38-2	
Barium	**0.059**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 01:07	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 01:07	7440-41-7	
Cadmium	**0.000028J**	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 01:07	7440-43-9	
Chromium	**0.00060J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 01:07	7440-47-3	
Cobalt	**0.00065J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 01:07	7440-48-4	
Lead	**0.00011J**	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 01:07	7439-92-1	
Molybdenum	**0.016**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 01:07	7439-98-7	
Selenium	**0.0035**	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 01:07	7782-49-2	
Thallium	**0.00011J**	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 01:07	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	ug/L	0.20	0.091	1	05/02/23 10:37	05/02/23 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	**705**	mg/L	10.0	10.0	1		05/01/23 11:03		
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		05/09/23 15:41		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-54B-042623 **Lab ID: 50343255002** Collected: 04/26/23 11:20 Received: 04/27/23 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	**121**	mg/L	2.5	0.67	10		05/07/23 13:22	16887-00-6	
Fluoride	**0.55**	mg/L	0.050	0.017	1		05/07/23 13:03	16984-48-8	
Sulfate	**465**	mg/L	2.5	0.85	10		05/07/23 13:22	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	**4.1**	mg/L	0.10	0.061	1	05/04/23 16:45	05/08/23 10:35	7440-42-8	
Calcium	**192**	mg/L	1.0	0.088	1	05/04/23 16:45	05/08/23 10:35	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/04/23 16:45	05/08/23 10:35	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	ND	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 01:11	7440-36-0	
Arsenic	**0.0036**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 01:11	7440-38-2	
Barium	**0.065**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 01:11	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 01:11	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 01:11	7440-43-9	
Chromium	**0.00028J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 01:11	7440-47-3	
Cobalt	**0.00017J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 01:11	7440-48-4	
Lead	**0.000062J**	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 01:11	7439-92-1	
Molybdenum	**0.023**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 01:11	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 01:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 01:11	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	ug/L	0.20	0.091	1	05/02/23 10:37	05/02/23 18:28	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	**1070**	mg/L	10.0	10.0	1		05/01/23 11:03		
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		05/09/23 15:46		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-55R-042623 **Lab ID: 50343255003** Collected: 04/26/23 12:35 Received: 04/27/23 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	**33.5**	mg/L	2.5	0.67	10		05/07/23 14:21	16887-00-6	
Fluoride	**0.61**	mg/L	0.050	0.017	1		05/07/23 14:01	16984-48-8	
Sulfate	**342**	mg/L	2.5	0.85	10		05/07/23 14:21	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	**0.88**	mg/L	0.10	0.061	1	05/04/23 16:45	05/08/23 10:37	7440-42-8	
Calcium	**169**	mg/L	1.0	0.088	1	05/04/23 16:45	05/08/23 10:37	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/04/23 16:45	05/08/23 10:37	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	**0.00012J**	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 01:21	7440-36-0	
Arsenic	**0.00024J**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 01:21	7440-38-2	
Barium	**0.027**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 01:21	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 01:21	7440-41-7	
Cadmium	**0.000021J**	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 01:21	7440-43-9	
Chromium	**0.00031J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 01:21	7440-47-3	
Cobalt	**0.00024J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 01:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 01:21	7439-92-1	
Molybdenum	**0.022**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 01:21	7439-98-7	
Selenium	**0.0068**	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 01:21	7782-49-2	
Thallium	**0.000093J**	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 01:21	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	ug/L	0.20	0.091	1	05/02/23 10:37	05/02/23 18:30	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	**765**	mg/L	10.0	10.0	1		05/01/23 11:03		
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		05/09/23 15:49		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-68-050123 **Lab ID: 50343612001** Collected: 05/01/23 12:25 Received: 05/02/23 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	**19.5**	mg/L	2.5	0.67	10		05/14/23 12:46	16887-00-6	
Fluoride	**0.20**	mg/L	0.050	0.017	1		05/12/23 21:15	16984-48-8	
Sulfate	**64.0**	mg/L	2.5	0.85	10		05/14/23 12:46	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	0.061	1	05/10/23 17:45	05/12/23 14:55	7440-42-8	
Calcium	**62.4**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 14:55	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 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	**0.00020J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 17:26	7440-36-0	
Arsenic	**0.0030**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:26	7440-38-2	
Barium	**0.10**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:26	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:26	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:26	7440-43-9	
Chromium	**0.00029J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:26	7440-47-3	
Cobalt	**0.00065J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:26	7440-48-4	
Lead	**0.00030J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:26	7439-92-1	
Molybdenum	**0.0033**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:26	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:26	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	ug/L	0.20	0.091	1	05/09/23 11:16	05/09/23 18:56	7439-97-6	1d,F5
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	**260**	mg/L	10.0	10.0	1		05/03/23 14:31		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**8.2**	Std. Units	0.10	0.10	1		05/12/23 10:57		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: GAMW-68B-050123 **Lab ID: 50343612002** Collected: 05/01/23 14:40 Received: 05/02/23 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	**14.6**	mg/L	2.5	0.67	10		05/16/23 13:15	16887-00-6	
Fluoride	**0.17**	mg/L	0.050	0.017	1		05/12/23 22:12	16984-48-8	
Sulfate	**71.0**	mg/L	2.5	0.85	10		05/16/23 13:15	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	05/10/23 17:45	05/12/23 15:06	7440-42-8	
Calcium	**47.0**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:06	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 15:06	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	**0.000085J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 17:29	7440-36-0	
Arsenic	**0.00024J**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:29	7440-38-2	
Barium	**0.099**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:29	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:29	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:29	7440-43-9	
Chromium	**0.00034J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:29	7440-47-3	
Cobalt	**0.000044J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:29	7440-48-4	
Lead	**0.000040J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:29	7439-92-1	
Molybdenum	**0.0021**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:29	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:29	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	ug/L	0.20	0.091	1	05/09/23 11:16	05/09/23 18:58	7439-97-6	1d,F5
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	**229**	mg/L	10.0	10.0	1		05/03/23 14:31		
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		05/12/23 11:00		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: FB-04-050123 **Lab ID: 50343612003** Collected: 05/01/23 14:45 Received: 05/02/23 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	**0.079J**	mg/L	0.25	0.067	1		05/12/23 23:08	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		05/12/23 23:08	16984-48-8	
Sulfate	ND	mg/L	0.25	0.085	1		05/12/23 23:08	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	ND	mg/L	0.10	0.061	1	05/10/23 17:45	05/12/23 15:08	7440-42-8	
Calcium	ND	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:08	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 15:08	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	**0.000060J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 17:12	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:12	7440-38-2	
Barium	**0.0023**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:12	7440-39-3	C0
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:12	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:12	7440-43-9	
Chromium	**0.00026J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:12	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:12	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:12	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:12	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	ug/L	0.20	0.091	1	05/09/23 11:16	05/09/23 19:01	7439-97-6	1d,F5
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		05/03/23 14:50		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		05/12/23 11:02		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Sample: FD-04-050123 **Lab ID: 50343612004** Collected: 05/01/23 12:00 Received: 05/02/23 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	**14.4**	mg/L	2.5	0.67	10		05/13/23 00:43	16887-00-6	
Fluoride	**0.18**	mg/L	0.050	0.017	1		05/13/23 00:24	16984-48-8	
Sulfate	**70.8**	mg/L	2.5	0.85	10		05/13/23 00:43	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	0.061	1	05/10/23 17:45	05/12/23 15:11	7440-42-8	
Calcium	**48.4**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:11	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 15:11	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	**0.000074J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 17:32	7440-36-0	
Arsenic	**0.00023J**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:32	7440-38-2	
Barium	**0.098**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:32	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:32	7440-41-7	
Cadmium	**0.000014J**	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:32	7440-43-9	
Chromium	**0.00028J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:32	7440-47-3	
Cobalt	**0.000043J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:32	7440-48-4	
Lead	**0.000049J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:32	7439-92-1	
Molybdenum	**0.0021**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:32	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:32	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	ug/L	0.20	0.091	1	05/09/23 11:16	05/09/23 19:03	7439-97-6	1d,F5
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		05/03/23 14:50		
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		05/12/23 11:03		H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 728551
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50341962001, 50341962002

METHOD BLANK: 3343360 Matrix: Water
Associated Lab Samples: 50341962001, 50341962002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/23/23 03:17	
Fluoride	mg/L	ND	0.050	0.017	04/23/23 03:17	
Sulfate	mg/L	ND	0.25	0.085	04/23/23 03:17	

LABORATORY CONTROL SAMPLE: 3343361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	91	80-120	
Fluoride	mg/L	1	0.91	91	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3343362 3350095

Parameter	Units	50341968001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.1	2.5	2.5	5.5	5.3	98	90	80-120	4	15	
Fluoride	mg/L		1	1	1.0	1.0	102	103	80-120	1	15	
Sulfate	mg/L	24.0	5	5	29.2	28.5	104	90	80-120	2	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3343364 3343365

Parameter	Units	50341968009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	40.0	25	25	64.5	68.3	98	113	80-120	6	15	
Fluoride	mg/L		1	1	1.1	1.1	106	106	80-120	0	15	
Sulfate	mg/L	43.7	5	5	47.5	46.2	75	49	80-120	3	15	M0

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729724
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342144001, 50342144002

METHOD BLANK: 3348871 Matrix: Water
Associated Lab Samples: 50342144001, 50342144002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/26/23 11:00	
Fluoride	mg/L	ND	0.050	0.017	04/26/23 11:00	
Sulfate	mg/L	ND	0.25	0.085	04/26/23 11:00	

LABORATORY CONTROL SAMPLE: 3348872

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	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3348873 3348875

Parameter	Units	50342144002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	23.9	2.5	2.5	25.8	25.8	76	76	80-120	0	15	E,M0
Fluoride	mg/L	0.17	1	1	1.2	1.2	104	104	80-120	0	15	
Sulfate	mg/L	66.1	50	50	112	112	92	91	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730038 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006

METHOD BLANK: 3350309 Matrix: Water
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/28/23 20:41	
Fluoride	mg/L	ND	0.050	0.017	04/28/23 20:41	
Sulfate	mg/L	ND	0.25	0.085	04/28/23 20:41	

LABORATORY CONTROL SAMPLE: 3350310

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	0.97	97	80-120	
Sulfate	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3350311 3350312

Parameter	Units	50342799003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	54.9	25	25	80.9	80.1	104	101	80-120	1	15	
Fluoride	mg/L	ND	1	1	1.0	1.0	97	98	80-120	1	15	
Sulfate	mg/L	274	50	50	318	318	89	88	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730064 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342402001, 50342402002, 50342402003, 50342402004

METHOD BLANK: 3350424 Matrix: Water
Associated Lab Samples: 50342402001, 50342402002, 50342402003, 50342402004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/28/23 10:58	
Fluoride	mg/L	ND	0.050	0.017	04/28/23 10:58	
Sulfate	mg/L	ND	0.25	0.085	04/28/23 10:58	

LABORATORY CONTROL SAMPLE: 3350425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	0.96	96	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3350426 3350427

Parameter	Units	50342433005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	11.2	2.5	2.5	13.7	13.7	101	101	80-120	0	15	
Fluoride	mg/L	0.22	1	1	1.2	1.2	98	99	80-120	1	15	
Sulfate	mg/L	437	50	50	501	501	127	128	80-120	0	15	E,M0

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730423 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

METHOD BLANK: 3352317 Matrix: Water
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/29/23 06:05	
Fluoride	mg/L	ND	0.050	0.017	04/29/23 06:05	
Sulfate	mg/L	ND	0.25	0.085	04/29/23 06:05	

LABORATORY CONTROL SAMPLE: 3352318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	92	80-120	
Fluoride	mg/L	1	1.0	102	80-120	
Sulfate	mg/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3352319 3352320

Parameter	Units	50342598007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	182	25	25	207	207	98	98	80-120	0	15	
Fluoride	mg/L	7.9	1	1	8.9	8.9	105	107	80-120	0	15	
Sulfate	mg/L	393	50	50	437	438	89	91	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730609
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007

METHOD BLANK: 3353516 Matrix: Water
Associated Lab Samples: 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	04/30/23 00:50	
Fluoride	mg/L	ND	0.050	0.017	04/30/23 00:50	
Sulfate	mg/L	ND	0.25	0.085	04/30/23 00:50	

LABORATORY CONTROL SAMPLE: 3353517

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	0.95	95	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3353518 3353519

Parameter	Units	50342776001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	134	25	25	158	158	97	97	80-120	0	15	
Fluoride	mg/L	0.56	1	1	1.6	1.6	104	104	80-120	0	15	
Sulfate	mg/L	553	500	500	1020	1010	93	92	80-120	1	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730834 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

METHOD BLANK: 3354265 Matrix: Water
Associated Lab Samples: 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/03/23 20:45	
Fluoride	mg/L	ND	0.050	0.017	05/03/23 20:45	
Sulfate	mg/L	ND	0.25	0.085	05/03/23 20:45	

LABORATORY CONTROL SAMPLE: 3354266

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	0.95	95	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3354267 3354268

Parameter	Units	50342886008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	30.1	25	25	54.4	54.4	97	97	80-120	0	15	
Fluoride	mg/L	0.26	1	1	1.2	1.2	95	97	80-120	1	15	
Sulfate	mg/L	28.7	5	5	33.6	33.7	99	100	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731451
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343032001, 50343032002

METHOD BLANK: 3356576 Matrix: Water
Associated Lab Samples: 50343032001, 50343032002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/05/23 23:08	
Fluoride	mg/L	ND	0.050	0.017	05/05/23 23:08	
Sulfate	mg/L	ND	0.25	0.085	05/05/23 23:08	

LABORATORY CONTROL SAMPLE: 3356577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	91	80-120	
Fluoride	mg/L	1	0.91	91	80-120	
Sulfate	mg/L	5	4.7	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3356578 3356579

Parameter	Units	50343477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	90.6	25	25	114	114	95	94	80-120	0	15	
Fluoride	mg/L	ND	1	1	0.98	0.99	92	93	80-120	1	15	
Sulfate	mg/L	209	50	50	264	262	110	106	80-120	1	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731453
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343172001, 50343172003

METHOD BLANK: 3356592 Matrix: Water
Associated Lab Samples: 50343172001, 50343172003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/04/23 20:36	
Fluoride	mg/L	ND	0.050	0.017	05/04/23 20:36	
Sulfate	mg/L	ND	0.25	0.085	05/04/23 20:36	

LABORATORY CONTROL SAMPLE: 3356593

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	1.0	104	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3356594 3356595

Parameter	Units	50343595002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	32.7	25	25	55.6	55.5	91	91	80-120	0	15	
Fluoride	mg/L	ND	1	1	1.1	1.1	107	107	80-120	0	15	
Sulfate	mg/L	24.4	5	5	29.1	29.1	94	93	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731616
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50343172002

METHOD BLANK: 3357480 Matrix: Water
Associated Lab Samples: 50343172002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/05/23 23:12	
Fluoride	mg/L	ND	0.050	0.017	05/05/23 23:12	
Sulfate	mg/L	ND	0.25	0.085	05/05/23 23:12	

LABORATORY CONTROL SAMPLE: 3357481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	98	80-120	
Fluoride	mg/L	1	0.98	98	80-120	
Sulfate	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3357482 3357483

Parameter	Units	50343172002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	199	25	25	223	223	95	95	80-120	0	15	
Fluoride	mg/L	0.92	1	1	1.9	1.9	100	101	80-120	0	15	
Sulfate	mg/L	62.8	50	50	110	109	94	93	80-120	1	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731633 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

METHOD BLANK: 3357542 Matrix: Water
Associated Lab Samples: 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/07/23 05:15	
Fluoride	mg/L	ND	0.050	0.017	05/07/23 05:15	
Sulfate	mg/L	ND	0.25	0.085	05/07/23 05:15	

LABORATORY CONTROL SAMPLE: 3357543

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	0.94	94	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3357544 3357545

Parameter	Units	50343240003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	113	25	25	144	139	122	105	80-120	3	15	E,M0
Fluoride	mg/L	0.36	1	1	1.3	1.5	97	112	80-120	11	15	
Sulfate	mg/L	50.5	50	50	93.0	90.7	85	80	80-120	3	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 732630
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

METHOD BLANK: 3362311 Matrix: Water
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/12/23 23:27	
Fluoride	mg/L	ND	0.050	0.017	05/12/23 23:27	
Sulfate	mg/L	ND	0.25	0.085	05/12/23 23:27	

LABORATORY CONTROL SAMPLE: 3362312

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	1.1	107	80-120	
Sulfate	mg/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3362313 3362314

Parameter	Units	50344228001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.1	25	25	39.1	39.4	100	101	80-120	1	15	
Fluoride	mg/L	ND	1	1	1.3	1.3	122	122	80-120	0	15	M0
Sulfate	mg/L	226	50	50	272	270	91	88	80-120	1	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 728756
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50341962001, 50341962002

METHOD BLANK: 3344165 Matrix: Water
Associated Lab Samples: 50341962001, 50341962002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/21/23 07:09	

LABORATORY CONTROL SAMPLE: 3344166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3344167 3344168

Parameter	Units	50341956002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.0020 mg/L	5	5	5.1	5.3	100	104	75-125	4	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 728758
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342144001, 50342144002

METHOD BLANK: 3344174 Matrix: Water
Associated Lab Samples: 50342144001, 50342144002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	04/21/23 08:18	

LABORATORY CONTROL SAMPLE: 3344175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.5	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3344176 3344177

Parameter	Units	50342354003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.3	5.4	104	107	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3344178 3344179

Parameter	Units	50342144002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.2	100	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729845
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006, 50342402001, 50342402002, 50342402003, 50342402004

METHOD BLANK: 3349523 Matrix: Water
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006, 50342402001, 50342402002, 50342402003, 50342402004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	04/26/23 21:56	

LABORATORY CONTROL SAMPLE: 3349524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3349525 3349526

Parameter	Units	50342290006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.3	5.2	106	103	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729970 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

METHOD BLANK: 3350029 Matrix: Water
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	05/02/23 16:13	

LABORATORY CONTROL SAMPLE: 3350030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3350031 3350032

Parameter	Units	50342608003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.2	5.2	103	104	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730372 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007, 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

METHOD BLANK: 3351877 Matrix: Water
Associated Lab Samples: 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007, 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	05/01/23 08:35	

LABORATORY CONTROL SAMPLE: 3351878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3351879 3351880

Parameter	Units	50342776001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.0	100	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730914
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343032001, 50343032002

METHOD BLANK: 3354537 Matrix: Water
Associated Lab Samples: 50343032001, 50343032002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	05/02/23 10:54	

LABORATORY CONTROL SAMPLE: 3354538

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3354539 3354540

Parameter	Units	50343477002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.4	5.3	108	107	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730947 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343172001, 50343172002, 50343172003, 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

METHOD BLANK: 3354730 Matrix: Water
Associated Lab Samples: 50343172001, 50343172002, 50343172003, 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	05/02/23 17:24	

LABORATORY CONTROL SAMPLE: 3354731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3354732 3354733

Parameter	Units	50343172002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.2	5.1	103	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731914
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

METHOD BLANK: 3359151 Matrix: Water
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	05/09/23 18:24	

LABORATORY CONTROL SAMPLE: 3359152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3359153 3359154

Parameter	Units	50343791004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.2	5.1	104	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729319
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50341962001, 50341962002

METHOD BLANK: 3347267 Matrix: Water
Associated Lab Samples: 50341962001, 50341962002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.038	04/24/23 13:47	
Calcium	mg/L	ND	1.0	0.16	04/24/23 13:47	
Lithium	mg/L	ND	0.010	0.0062	04/24/23 13:47	

LABORATORY CONTROL SAMPLE: 3347268

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.98	98	80-120	
Calcium	mg/L	10	10.1	101	80-120	
Lithium	mg/L	1	1.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3347269 3347270

Parameter	Units	50341419003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	2780 ug/L	1	1	3.8	3.9	99	111	75-125	3	20	
Calcium	mg/L	137000 ug/L	10	10	146	151	95	139	75-125	3	20	P6
Lithium	mg/L	28.5 ug/L	1	1	1.1	1.1	106	109	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729377
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342144001, 50342144002

METHOD BLANK: 3347609 Matrix: Water
Associated Lab Samples: 50342144001, 50342144002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.038	04/26/23 10:40	
Calcium	mg/L	ND	1.0	0.16	04/26/23 10:40	
Lithium	mg/L	ND	0.010	0.0062	04/26/23 10:40	

LABORATORY CONTROL SAMPLE: 3347610

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	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3347611 3347612

Parameter	Units	50342144002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.34	1	1	1.3	1.3	95	93	75-125	1	20	
Calcium	mg/L	107	10	10	116	115	95	82	75-125	1	20	
Lithium	mg/L	ND	1	1	1.0	1.0	103	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729382 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006

METHOD BLANK: 3347633 Matrix: Water
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.038	04/26/23 11:59	
Calcium	mg/L	ND	1.0	0.16	04/26/23 11:59	
Lithium	mg/L	ND	0.010	0.0062	04/26/23 11:59	

LABORATORY CONTROL SAMPLE: 3347634

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.97	97	80-120	
Calcium	mg/L	10	10.2	102	80-120	
Lithium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3347635 3347636

Parameter	Units	50342287001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.27	1	1	1.2	1.2	96	95	75-125	1	20	
Calcium	mg/L	98.8	10	10	107	104	83	55	75-125	3	20	P6
Lithium	mg/L	ND	1	1	1.1	1.1	106	106	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729386
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342402001, 50342402002, 50342402003, 50342402004

METHOD BLANK: 3347668 Matrix: Water
Associated Lab Samples: 50342402001, 50342402002, 50342402003, 50342402004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.038	04/26/23 13:12	
Calcium	mg/L	ND	1.0	0.16	04/26/23 13:12	
Lithium	mg/L	ND	0.010	0.0062	04/26/23 13:12	

LABORATORY CONTROL SAMPLE: 3347669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.93	93	80-120	
Calcium	mg/L	10	10	100	80-120	
Lithium	mg/L	1	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3347670 3347671

Parameter	Units	50342433005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	4.0	1	1	5.1	4.9	106	90	75-125	3	20	
Calcium	mg/L	212	10	10	227	225	142	124	75-125	1	20	P6
Lithium	mg/L	ND	1	1	1.1	1.1	113	109	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729393
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

METHOD BLANK: 3347696 Matrix: Water
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.038	04/29/23 13:45	
Calcium	mg/L	ND	1.0	0.16	04/29/23 13:45	
Lithium	mg/L	ND	0.010	0.0062	04/29/23 13:45	

LABORATORY CONTROL SAMPLE: 3347697

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.96	96	80-120	
Calcium	mg/L	10	9.7	97	80-120	
Lithium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3347698 3347699

Parameter	Units	50342606001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	2.5	1	1	3.5	3.4	98	85	75-125	4	20	
Calcium	mg/L	186	10	10	191	184	56	-20	75-125	4	20	P6
Lithium	mg/L	ND	1	1	1.0	0.98	100	97	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730692
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007

METHOD BLANK: 3353961 Matrix: Water
Associated Lab Samples: 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.038	05/03/23 13:13	
Calcium	mg/L	ND	1.0	0.16	05/03/23 13:13	
Lithium	mg/L	ND	0.010	0.0062	05/03/23 13:13	

LABORATORY CONTROL SAMPLE: 3353962

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.96	96	80-120	
Calcium	mg/L	10	9.7	97	80-120	
Lithium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3353963 3353964

Parameter	Units	50342776001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	9.8	1	1	10.9	11.2	110	133	75-125	2	20	P6
Calcium	mg/L	225	10	10	235	240	100	152	75-125	2	20	P6
Lithium	mg/L	ND	1	1	1.1	1.1	105	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731076
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342909001, 50342909002, 50342909003, 50342912001, 50342912002, 50343032001, 50343032002

METHOD BLANK: 3355114 Matrix: Water
Associated Lab Samples: 50342909001, 50342909002, 50342909003, 50342912001, 50342912002, 50343032001, 50343032002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	05/04/23 09:52	
Calcium	mg/L	ND	1.0	0.088	05/04/23 09:52	
Lithium	mg/L	ND	0.010	0.0062	05/05/23 10:03	2d

LABORATORY CONTROL SAMPLE: 3355115

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.97	97	80-120	
Calcium	mg/L	10	10.2	102	80-120	
Lithium	mg/L	1	1.0	102	80-120	2d

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3355116 3355117

Parameter	Units	50343015001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.10	1	1	1.1	1.1	96	99	75-125	2	20	
Calcium	mg/L	29.2	10	10	38.4	39.8	92	106	75-125	4	20	
Lithium	mg/L	ND	1	1	1.0	1.0	99	103	75-125	4	20	F5

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731406
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343172001, 50343172002, 50343172003, 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

METHOD BLANK: 3356404 Matrix: Water
Associated Lab Samples: 50343172001, 50343172002, 50343172003, 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	05/08/23 09:57	
Calcium	mg/L	ND	1.0	0.088	05/08/23 09:57	
Lithium	mg/L	ND	0.010	0.0062	05/08/23 09:57	

LABORATORY CONTROL SAMPLE: 3356405

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.90	90	80-120	
Calcium	mg/L	10	9.7	97	80-120	
Lithium	mg/L	1	0.96	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3356406 3356407

Parameter	Units	50343172002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.14	1	1	1.1	1.1	94	95	75-125	1	20	
Calcium	mg/L	92.5	10	10	102	102	100	99	75-125	0	20	
Lithium	mg/L	ND	1	1	0.97	0.99	97	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 732537
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

METHOD BLANK: 3361877 Matrix: Water
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	05/12/23 14:48	
Calcium	mg/L	ND	1.0	0.088	05/12/23 14:48	
Lithium	mg/L	ND	0.010	0.0062	05/12/23 14:48	

LABORATORY CONTROL SAMPLE: 3361878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	102	80-120	
Calcium	mg/L	5	5.2	104	80-120	
Lithium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3361879 3361880

Parameter	Units	50343612001 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	1.0	1.0	100	100	75-125	0	20	
Calcium	mg/L	62.4	5	5	64.5	63.7	43	27	75-125	1	20	P6
Lithium	mg/L	ND	1	1	1.1	1.1	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 728110
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50341962001, 50341962002, 50342144001, 50342144002

METHOD BLANK: 3341813 Matrix: Water
Associated Lab Samples: 50341962001, 50341962002, 50342144001, 50342144002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000036	04/18/23 18:57	
Arsenic	mg/L	ND	0.0010	0.000053	04/18/23 18:57	
Barium	mg/L	ND	0.0010	0.000051	04/18/23 18:57	
Beryllium	mg/L	ND	0.00020	0.000028	04/18/23 18:57	
Cadmium	mg/L	ND	0.00020	0.0000090	04/18/23 18:57	
Chromium	mg/L	ND	0.0020	0.00013	04/18/23 18:57	
Cobalt	mg/L	ND	0.0010	0.000032	04/18/23 18:57	
Lead	mg/L	ND	0.0010	0.000034	04/18/23 18:57	
Molybdenum	mg/L	ND	0.0010	0.000048	04/18/23 18:57	
Selenium	mg/L	ND	0.0010	0.00023	04/18/23 18:57	
Thallium	mg/L	ND	0.0010	0.000033	04/18/23 18:57	

LABORATORY CONTROL SAMPLE: 3341814

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	0.038	96	80-120	
Barium	mg/L	0.04	0.039	99	80-120	
Beryllium	mg/L	0.04	0.042	104	80-120	
Cadmium	mg/L	0.04	0.039	97	80-120	
Chromium	mg/L	0.04	0.041	102	80-120	
Cobalt	mg/L	0.04	0.041	101	80-120	
Lead	mg/L	0.04	0.041	102	80-120	
Molybdenum	mg/L	0.04	0.041	102	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: 3341815 3341816

Parameter	Units	50342144002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.000080J	0.04	0.04	0.042	0.041	105	103	75-125	2	20	
Arsenic	mg/L	0.00030J	0.04	0.04	0.038	0.038	94	94	75-125	1	20	
Barium	mg/L	0.19	0.04	0.04	0.23	0.23	103	106	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.041	0.042	104	104	75-125	0	20	
Cadmium	mg/L	ND	0.04	0.04	0.038	0.039	96	96	75-125	0	20	
Chromium	mg/L	0.00045J	0.04	0.04	0.040	0.040	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3341815 3341816

Parameter	Units	50342144002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.00024J	0.04	0.04	0.040	0.039	99	98	75-125	1	20	
Lead	mg/L	0.000040J	0.04	0.04	0.041	0.041	103	103	75-125	0	20	
Molybdenum	mg/L	0.0011	0.04	0.04	0.043	0.042	105	103	75-125	1	20	
Selenium	mg/L	ND	0.04	0.04	0.039	0.039	97	96	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.042	0.042	106	106	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729332
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006, 50342402001, 50342402002, 50342402003, 50342402004

METHOD BLANK: 3347320 Matrix: Water
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006, 50342402001, 50342402002, 50342402003, 50342402004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	04/26/23 08:16	
Arsenic	mg/L	ND	0.0010	0.00012	04/26/23 08:16	
Barium	mg/L	ND	0.0010	0.000065	04/26/23 08:16	
Beryllium	mg/L	ND	0.00020	0.000026	04/26/23 08:16	
Cadmium	mg/L	ND	0.00020	0.000016	04/26/23 08:16	
Chromium	mg/L	ND	0.0020	0.00018	04/26/23 08:16	
Cobalt	mg/L	ND	0.0010	0.000071	04/26/23 08:16	
Lead	mg/L	ND	0.0010	0.000068	04/26/23 08:16	
Molybdenum	mg/L	ND	0.0010	0.000074	04/26/23 08:16	
Selenium	mg/L	ND	0.0010	0.00019	04/26/23 08:16	
Thallium	mg/L	ND	0.0010	0.000060	04/26/23 08:16	

LABORATORY CONTROL SAMPLE: 3347321

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	97	80-120	
Barium	mg/L	0.04	0.040	100	80-120	
Beryllium	mg/L	0.04	0.039	97	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.042	105	80-120	
Cobalt	mg/L	0.04	0.041	102	80-120	
Lead	mg/L	0.04	0.042	104	80-120	
Molybdenum	mg/L	0.04	0.041	104	80-120	
Selenium	mg/L	0.04	0.040	100	80-120	
Thallium	mg/L	0.04	0.043	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3347322 3347323

Parameter	Units	50342290001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00056J	0.04	0.04	0.042	0.043	104	106	75-125	2	20	
Arsenic	mg/L	0.0027	0.04	0.04	0.041	0.041	96	96	75-125	0	20	
Barium	mg/L	0.082	0.04	0.04	0.12	0.12	96	96	75-125	0	20	
Beryllium	mg/L	ND	0.04	0.04	0.038	0.039	96	98	75-125	2	20	
Cadmium	mg/L	0.000070J	0.04	0.04	0.038	0.038	95	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3347322 3347323

Parameter	Units	50342290001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.00039J	0.04	0.04	0.042	0.042	103	103	75-125	0	20	
Cobalt	mg/L	0.0015	0.04	0.04	0.040	0.040	96	96	75-125	0	20	
Lead	mg/L	0.00016J	0.04	0.04	0.041	0.041	102	103	75-125	1	20	
Molybdenum	mg/L	0.010	0.04	0.04	0.052	0.052	104	105	75-125	1	20	
Selenium	mg/L	0.00072J	0.04	0.04	0.040	0.039	99	97	75-125	2	20	
Thallium	mg/L	ND	0.04	0.04	0.042	0.042	105	106	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729632
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006, 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007, 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

METHOD BLANK: 3348381 Matrix: Water
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006, 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007, 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	04/27/23 18:12	
Arsenic	mg/L	ND	0.0010	0.00012	04/27/23 18:12	
Barium	mg/L	ND	0.0010	0.000065	04/27/23 18:12	
Beryllium	mg/L	ND	0.00020	0.000026	04/27/23 18:12	
Cadmium	mg/L	ND	0.00020	0.000016	04/27/23 18:12	
Chromium	mg/L	ND	0.0020	0.00018	04/27/23 18:12	
Cobalt	mg/L	ND	0.0010	0.000071	04/27/23 18:12	
Lead	mg/L	ND	0.0010	0.000068	04/27/23 18:12	
Molybdenum	mg/L	ND	0.0010	0.000074	04/27/23 18:12	
Selenium	mg/L	ND	0.0010	0.00019	04/27/23 18:12	
Thallium	mg/L	ND	0.0010	0.000060	04/27/23 18:12	

LABORATORY CONTROL SAMPLE: 3348382

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	93	80-120	
Barium	mg/L	0.04	0.038	96	80-120	
Beryllium	mg/L	0.04	0.038	94	80-120	
Cadmium	mg/L	0.04	0.038	94	80-120	
Chromium	mg/L	0.04	0.040	100	80-120	
Cobalt	mg/L	0.04	0.040	100	80-120	
Lead	mg/L	0.04	0.040	100	80-120	
Molybdenum	mg/L	0.04	0.041	101	80-120	
Selenium	mg/L	0.04	0.039	98	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3348383 3348384

Parameter	Units	50342776001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.040	0.041	101	103	75-125	2	20	
Arsenic	mg/L	0.0031	0.04	0.04	0.039	0.038	89	88	75-125	1	20	
Barium	mg/L	0.064	0.04	0.04	0.10	0.10	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3348383 3348384

Parameter	Units	50342776001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.04	0.04	0.036	0.036	91	91	75-125	0	20	
Cadmium	mg/L	ND	0.04	0.04	0.036	0.036	90	91	75-125	1	20	
Chromium	mg/L	0.00029J	0.04	0.04	0.040	0.040	100	100	75-125	0	20	
Cobalt	mg/L	0.00028J	0.04	0.04	0.039	0.039	97	96	75-125	0	20	
Lead	mg/L	ND	0.04	0.04	0.040	0.040	100	100	75-125	1	20	
Molybdenum	mg/L	0.013	0.04	0.04	0.055	0.055	105	104	75-125	0	20	
Selenium	mg/L	ND	0.04	0.04	0.038	0.038	95	95	75-125	0	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: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730633
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343032001, 50343032002, 50343172001, 50343172002, 50343172003, 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

METHOD BLANK: 3353694 Matrix: Water
Associated Lab Samples: 50343032001, 50343032002, 50343172001, 50343172002, 50343172003, 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000036	05/03/23 00:07	
Arsenic	mg/L	ND	0.0010	0.000053	05/03/23 00:07	
Barium	mg/L	ND	0.0010	0.000051	05/03/23 00:07	
Beryllium	mg/L	ND	0.00020	0.000028	05/03/23 00:07	
Cadmium	mg/L	ND	0.00020	0.0000090	05/03/23 00:07	
Chromium	mg/L	ND	0.0020	0.00013	05/03/23 00:07	
Cobalt	mg/L	ND	0.0010	0.000032	05/03/23 00:07	
Lead	mg/L	ND	0.0010	0.000034	05/03/23 00:07	
Molybdenum	mg/L	ND	0.0010	0.000048	05/03/23 00:07	
Selenium	mg/L	ND	0.0010	0.00023	05/03/23 00:07	
Thallium	mg/L	ND	0.0010	0.000033	05/03/23 00:07	

LABORATORY CONTROL SAMPLE: 3353695

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	0.037	94	80-120	
Barium	mg/L	0.04	0.039	98	80-120	
Beryllium	mg/L	0.04	0.039	97	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.040	101	80-120	
Cobalt	mg/L	0.04	0.041	102	80-120	
Lead	mg/L	0.04	0.040	101	80-120	
Molybdenum	mg/L	0.04	0.042	104	80-120	
Selenium	mg/L	0.04	0.040	99	80-120	
Thallium	mg/L	0.04	0.041	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3353696 3353697

Parameter	Units	50343172002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.000072J	0.04	0.04	0.041	0.042	103	105	75-125	2	20	
Arsenic	mg/L	0.00050J	0.04	0.04	0.038	0.039	93	95	75-125	2	20	
Barium	mg/L	0.11	0.04	0.04	0.14	0.15	94	101	75-125	2	20	
Beryllium	mg/L	ND	0.04	0.04	0.040	0.040	99	101	75-125	2	20	
Cadmium	mg/L	ND	0.04	0.04	0.038	0.039	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3353696 3353697

Parameter	Units	50343172002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.00032J	0.04	0.04	0.040	0.040	98	100	75-125	2	20	
Cobalt	mg/L	0.000077J	0.04	0.04	0.039	0.040	97	100	75-125	3	20	
Lead	mg/L	0.000036J	0.04	0.04	0.040	0.041	101	102	75-125	1	20	
Molybdenum	mg/L	0.0046	0.04	0.04	0.046	0.047	103	105	75-125	1	20	
Selenium	mg/L	ND	0.04	0.04	0.039	0.041	98	101	75-125	3	20	
Thallium	mg/L	ND	0.04	0.04	0.041	0.042	103	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 732043
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

METHOD BLANK: 3359829 Matrix: Water
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000036	05/10/23 17:06	
Arsenic	mg/L	ND	0.0010	0.000053	05/10/23 17:06	
Barium	mg/L	ND	0.0010	0.000051	05/10/23 17:06	
Beryllium	mg/L	ND	0.00020	0.000028	05/10/23 17:06	
Cadmium	mg/L	ND	0.00020	0.0000090	05/10/23 17:06	
Chromium	mg/L	ND	0.0020	0.00013	05/10/23 17:06	
Cobalt	mg/L	ND	0.0010	0.000032	05/10/23 17:06	
Lead	mg/L	ND	0.0010	0.000034	05/10/23 17:06	
Molybdenum	mg/L	ND	0.0010	0.000048	05/10/23 17:06	
Selenium	mg/L	ND	0.0010	0.00023	05/10/23 17:06	
Thallium	mg/L	ND	0.0010	0.000033	05/10/23 17:06	

LABORATORY CONTROL SAMPLE: 3359830

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	0.040	99	80-120	
Barium	mg/L	0.04	0.040	99	80-120	
Beryllium	mg/L	0.04	0.041	103	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	102	80-120	
Molybdenum	mg/L	0.04	0.041	102	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: 3359831 3359832

Parameter	Units	50343920002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00027J	0.04	0.04	0.042	0.042	105	105	75-125	0	20	
Arsenic	mg/L	0.0023	0.04	0.04	0.042	0.042	100	99	75-125	1	20	
Barium	mg/L	0.015	0.04	0.04	0.054	0.055	100	101	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.042	0.041	104	103	75-125	1	20	
Cadmium	mg/L	0.000013J	0.04	0.04	0.040	0.040	99	100	75-125	1	20	
Chromium	mg/L	0.00074J	0.04	0.04	0.042	0.042	103	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3359831 3359832

Parameter	Units	50343920002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.00068J	0.04	0.04	0.041	0.041	101	100	75-125	0	20	
Lead	mg/L	0.00025J	0.04	0.04	0.041	0.041	102	102	75-125	0	20	
Molybdenum	mg/L	0.0031	0.04	0.04	0.045	0.044	104	103	75-125	1	20	
Selenium	mg/L	0.00028J	0.04	0.04	0.040	0.040	98	99	75-125	0	20	
Thallium	mg/L	ND	0.04	0.04	0.042	0.042	104	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 728407
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50341962001, 50341962002

METHOD BLANK: 3342778 Matrix: Water
Associated Lab Samples: 50341962001, 50341962002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/18/23 08:25	

LABORATORY CONTROL SAMPLE: 3342779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	271	90	80-120	

SAMPLE DUPLICATE: 3342780

Parameter	Units	50341972001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	328	323	2	10	

SAMPLE DUPLICATE: 3342781

Parameter	Units	50341972006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	586	594	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 728660
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342144001, 50342144002

METHOD BLANK: 3343815 Matrix: Water
Associated Lab Samples: 50342144001, 50342144002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/19/23 08:35	

LABORATORY CONTROL SAMPLE: 3343816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3343817

Parameter	Units	50342111003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98	103	5	10	

SAMPLE DUPLICATE: 3343818

Parameter	Units	50342144002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	472	463	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 728738 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004

METHOD BLANK: 3344096 Matrix: Water
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/19/23 16:54	

LABORATORY CONTROL SAMPLE: 3344097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 3344098

Parameter	Units	50342278009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	7750	7660	1	10	

SAMPLE DUPLICATE: 3344099

Parameter	Units	50342283003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1140	1150	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 728921 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342290005, 50342290006, 50342402001, 50342402002, 50342402003

METHOD BLANK: 3344856 Matrix: Water
Associated Lab Samples: 50342290005, 50342290006, 50342402001, 50342402002, 50342402003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/20/23 09:54	

LABORATORY CONTROL SAMPLE: 3344857

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	278	93	80-120	

SAMPLE DUPLICATE: 3344858

Parameter	Units	50342290005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	218	0	10	

SAMPLE DUPLICATE: 3344859

Parameter	Units	50342535001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1530	1490	3	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729143
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342402004

METHOD BLANK: 3346184 Matrix: Water
Associated Lab Samples: 50342402004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/21/23 08:22	

LABORATORY CONTROL SAMPLE: 3346185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	273	91	80-120	

SAMPLE DUPLICATE: 3346186

Parameter	Units	50342354003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	374	375	0	10	

SAMPLE DUPLICATE: 3346187

Parameter	Units	50342433005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1200	1190	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729681
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342608001

METHOD BLANK: 3348524 Matrix: Water
Associated Lab Samples: 50342608001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/25/23 11:24	

LABORATORY CONTROL SAMPLE: 3348525

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

SAMPLE DUPLICATE: 3348527

Parameter	Units	50342601002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	480	493	3	10	

SAMPLE DUPLICATE: 3348610

Parameter	Units	50342604001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	4400	4340	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729698 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

METHOD BLANK: 3348652 Matrix: Water
Associated Lab Samples: 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/25/23 11:40	

LABORATORY CONTROL SAMPLE: 3348653

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

SAMPLE DUPLICATE: 3348654

Parameter	Units	50342608002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1370	1330	3	10	

SAMPLE DUPLICATE: 3348655

Parameter	Units	50342694003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2850	2890	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729886
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342776001, 50342776002

METHOD BLANK: 3349670 Matrix: Water
Associated Lab Samples: 50342776001, 50342776002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/26/23 08:55	

LABORATORY CONTROL SAMPLE: 3349671

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3349672

Parameter	Units	50342752003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	626000 ug/L	614	2	10	

SAMPLE DUPLICATE: 3349673

Parameter	Units	50342776001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1320	1310	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729888 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342776003, 50342776004, 50342776005, 50342776006, 50342776007

METHOD BLANK: 3349684 Matrix: Water
Associated Lab Samples: 50342776003, 50342776004, 50342776005, 50342776006, 50342776007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/26/23 09:08	

LABORATORY CONTROL SAMPLE: 3349685

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

SAMPLE DUPLICATE: 3349686

Parameter	Units	50342799003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	738	750	2	10	

SAMPLE DUPLICATE: 3349687

Parameter	Units	50342896007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3100	3100	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730185 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

METHOD BLANK: 3350998 Matrix: Water
Associated Lab Samples: 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/27/23 09:07	

LABORATORY CONTROL SAMPLE: 3350999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	293	98	80-120	

SAMPLE DUPLICATE: 3351000

Parameter	Units	50342805002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	707000 ug/L	712	1	10	

SAMPLE DUPLICATE: 3351001

Parameter	Units	50342909002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2050	2050	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730413
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343032001, 50343032002

METHOD BLANK: 3352198 Matrix: Water
Associated Lab Samples: 50343032001, 50343032002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/28/23 08:26	

LABORATORY CONTROL SAMPLE: 3352199

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

SAMPLE DUPLICATE: 3352200

Parameter	Units	50342943001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	325	321	1	10	

SAMPLE DUPLICATE: 3352201

Parameter	Units	50342943002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	475	473	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730630 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343172001, 50343172002, 50343172003

METHOD BLANK: 3353686 Matrix: Water
Associated Lab Samples: 50343172001, 50343172002, 50343172003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	04/29/23 08:16	

LABORATORY CONTROL SAMPLE: 3353687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	274	91	80-120	

SAMPLE DUPLICATE: 3353688

Parameter	Units	50343144005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1140	1110	2	10	

SAMPLE DUPLICATE: 3353689

Parameter	Units	50343172002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	540	532	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730811 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

METHOD BLANK: 3354210 Matrix: Water
Associated Lab Samples: 50343254001, 50343254002, 50343255001, 50343255002, 50343255003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/01/23 11:01	

LABORATORY CONTROL SAMPLE: 3354211

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

SAMPLE DUPLICATE: 3354212

Parameter	Units	50343254001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1170	1170	1	10	

SAMPLE DUPLICATE: 3354213

Parameter	Units	50343274003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	209	202	3	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731387
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343612001, 50343612002

METHOD BLANK: 3356343 Matrix: Water
Associated Lab Samples: 50343612001, 50343612002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/03/23 14:23	

LABORATORY CONTROL SAMPLE: 3356344

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

SAMPLE DUPLICATE: 3356345

Parameter	Units	50343644001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1230	1240	1	10	

SAMPLE DUPLICATE: 3356346

Parameter	Units	50343595002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	371	375	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731396
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343612003, 50343612004

METHOD BLANK: 3356369 Matrix: Water
Associated Lab Samples: 50343612003, 50343612004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/03/23 14:50	

LABORATORY CONTROL SAMPLE: 3356370

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

SAMPLE DUPLICATE: 3356371

Parameter	Units	50343615001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	884	869	2	10	

SAMPLE DUPLICATE: 3356372

Parameter	Units	50343616003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1920	1910	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 729956
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50342144001

SAMPLE DUPLICATE: 3350025

Parameter	Units	50342799003 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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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730031
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50341962001, 50341962002

SAMPLE DUPLICATE: 3350303

Parameter	Units	50341967001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	2	H3

SAMPLE DUPLICATE: 3350304

Parameter	Units	50341962002 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: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730168
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50342144002

SAMPLE DUPLICATE: 3350928

Parameter	Units	50342144002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730170
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342290001, 50342290002, 50342290003, 50342290004, 50342290005, 50342290006

SAMPLE DUPLICATE: 3350934

Parameter	Units	50342601002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	8.0	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 730199
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342402001, 50342402002, 50342402003, 50342402004

SAMPLE DUPLICATE: 3351044

Parameter	Units	50342402001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	2	H3

SAMPLE DUPLICATE: 3351045

Parameter	Units	50342354003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731127
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342608001, 50342608002, 50342608003, 50342608004, 50342608005, 50342608006

SAMPLE DUPLICATE: 3355315

Parameter	Units	10650316001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.9	7.9	1	2	H3

SAMPLE DUPLICATE: 3355316

Parameter	Units	50343519001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.7	5.7	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 731310
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342776001, 50342776002, 50342776003, 50342776004, 50342776005, 50342776006, 50342776007

SAMPLE DUPLICATE: 3356110

Parameter	Units	50342776001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

SAMPLE DUPLICATE: 3356111

Parameter	Units	50342776002 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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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 732145
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50342909001, 50342909002, 50342909003, 50342912001, 50342912002

SAMPLE DUPLICATE: 3360327

Parameter	Units	50342909001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	0	2	H3

SAMPLE DUPLICATE: 3360328

Parameter	Units	50343477002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 732299
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50343032001, 50343032002

SAMPLE DUPLICATE: 3360756

Parameter	Units	50341682001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.1	0	2	H3

SAMPLE DUPLICATE: 3360757

Parameter	Units	50343589002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.6	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 732452
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343172001, 50343172002, 50343172003

SAMPLE DUPLICATE: 3361532

Parameter	Units	50343172002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 732455
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343254001, 50343254002, 50343255001

SAMPLE DUPLICATE: 3361538

Parameter	Units	50343740001 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: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 732456
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50343255002, 50343255003

SAMPLE DUPLICATE: 3361540

Parameter	Units	50343255002 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: RMSGS Assessment Apr23
Pace Project No.: 50341962

QC Batch: 733176
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343612001, 50343612002, 50343612003, 50343612004

SAMPLE DUPLICATE: 3365024

Parameter	Units	50343583002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.1	1	2	H3

SAMPLE DUPLICATE: 3365025

Parameter	Units	50343616010 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.4	1	2	H3

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QUALIFIERS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

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	Closing CRDL 132%. Sample negative for Hg.
2d	Closing CRDL @ 39% recovery ELK 05/08/23
C0	Result confirmed by second analysis.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
F5	The recovery of the analyte in the CRDL standard (also known as the reporting limit verification) did not meet the acceptance criteria.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50341962001	**GAMW-14-041223**	EPA 9056	728551		
50341962002	**GAMW-14B-041223**	EPA 9056	728551		
50342144001	**GAMW-01-041323**	EPA 9056	729724		
50342144002	**GAMW-01B-041323**	EPA 9056	729724		
50342290001	**GAMW-03-041423**	EPA 9056	730038		
50342290002	**GAMW-03B-041423**	EPA 9056	730038		
50342290003	**GAMW-12-041423**	EPA 9056	730038		
50342290004	**GAMW-12B-041423**	EPA 9056	730038		
50342290005	**GAMW-13-041423**	EPA 9056	730038		
50342290006	**GAMW-13B-041423**	EPA 9056	730038		
50342402001	**GAMW-51-041523**	EPA 9056	730064		
50342402002	**GAMW-51B-041523**	EPA 9056	730064		
50342402003	**GAMW-59-041523**	EPA 9056	730064		
50342402004	**GAMW-59B-041523**	EPA 9056	730064		
50342608001	**GAMW-09-041923**	EPA 9056	730423		
50342608002	**GAMW-09B-041923**	EPA 9056	730423		
50342608003	**GAMW-17-041923**	EPA 9056	730423		
50342608004	**GAMW-18-041923**	EPA 9056	730423		
50342608005	**FD-01-041923**	EPA 9056	730423		
50342608006	**FB-01-041923**	EPA 9056	730423		
50342776001	**GAMW-17B-042023**	EPA 9056	730609		
50342776002	**GAMW-18B-042023**	EPA 9056	730609		
50342776003	**GAMW-60-042023**	EPA 9056	730609		
50342776004	**GAMW-60B-042023**	EPA 9056	730609		
50342776005	**GAMW-16R-042023**	EPA 9056	730609		
50342776006	**FD-02-042023**	EPA 9056	730609		
50342776007	**FB-02-042023**	EPA 9056	730609		
50342909001	**GAMW-08-042123**	EPA 9056	730834		
50342909002	**GAMW-08B-042123**	EPA 9056	730834		
50342909003	**GAMW-16BR-042123**	EPA 9056	730834		
50342912001	**GAMW-56-042123**	EPA 9056	730834		
50342912002	**GAMW-56B-042123**	EPA 9056	730834		
50343032001	**GAMW-53-042423**	EPA 9056	731451		
50343032002	**GAMW-53B-042423**	EPA 9056	731451		
50343172001	**GAMW-52-042523**	EPA 9056	731453		
50343172002	**GAMW-52B-042523**	EPA 9056	731616		
50343172003	**FD-03-042523**	EPA 9056	731453		
50343254001	**GAMW-55B-042623**	EPA 9056	731633		
50343254002	**FB-03-042623**	EPA 9056	731633		
50343255001	**GAMW-54-042623**	EPA 9056	731633		
50343255002	**GAMW-54B-042623**	EPA 9056	731633		
50343255003	**GAMW-55R-042623**	EPA 9056	731633		
50343612001	**GAMW-68-050123**	EPA 9056	732630		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343612002	**GAMW-68B-050123**	EPA 9056	732630		
50343612003	**FB-04-050123**	EPA 9056	732630		
50343612004	**FD-04-050123**	EPA 9056	732630		
50341962001	**GAMW-14-041223**	EPA 3010	729319	EPA 6010	729496
50341962002	**GAMW-14B-041223**	EPA 3010	729319	EPA 6010	729496
50342144001	**GAMW-01-041323**	EPA 3010	729377	EPA 6010	729963
50342144002	**GAMW-01B-041323**	EPA 3010	729377	EPA 6010	729963
50342290001	**GAMW-03-041423**	EPA 3010	729382	EPA 6010	729983
50342290002	**GAMW-03B-041423**	EPA 3010	729382	EPA 6010	729983
50342290003	**GAMW-12-041423**	EPA 3010	729382	EPA 6010	729983
50342290004	**GAMW-12B-041423**	EPA 3010	729382	EPA 6010	729983
50342290005	**GAMW-13-041423**	EPA 3010	729382	EPA 6010	729983
50342290006	**GAMW-13B-041423**	EPA 3010	729382	EPA 6010	729983
50342402001	**GAMW-51-041523**	EPA 3010	729386	EPA 6010	729995
50342402002	**GAMW-51B-041523**	EPA 3010	729386	EPA 6010	729995
50342402003	**GAMW-59-041523**	EPA 3010	729386	EPA 6010	729995
50342402004	**GAMW-59B-041523**	EPA 3010	729386	EPA 6010	729995
50342608001	**GAMW-09-041923**	EPA 3010	729393	EPA 6010	730670
50342608002	**GAMW-09B-041923**	EPA 3010	729393	EPA 6010	730670
50342608003	**GAMW-17-041923**	EPA 3010	729393	EPA 6010	730670
50342608004	**GAMW-18-041923**	EPA 3010	729393	EPA 6010	730670
50342608005	**FD-01-041923**	EPA 3010	729393	EPA 6010	730670
50342608006	**FB-01-041923**	EPA 3010	729393	EPA 6010	730670
50342776001	**GAMW-17B-042023**	EPA 3010	730692	EPA 6010	731352
50342776002	**GAMW-18B-042023**	EPA 3010	730692	EPA 6010	731352
50342776003	**GAMW-60-042023**	EPA 3010	730692	EPA 6010	731352
50342776004	**GAMW-60B-042023**	EPA 3010	730692	EPA 6010	731352
50342776005	**GAMW-16R-042023**	EPA 3010	730692	EPA 6010	731352
50342776006	**FD-02-042023**	EPA 3010	730692	EPA 6010	731352
50342776007	**FB-02-042023**	EPA 3010	730692	EPA 6010	731352
50342909001	**GAMW-08-042123**	EPA 3010	731076	EPA 6010	731554
50342909002	**GAMW-08B-042123**	EPA 3010	731076	EPA 6010	731554
50342909003	**GAMW-16BR-042123**	EPA 3010	731076	EPA 6010	731554
50342912001	**GAMW-56-042123**	EPA 3010	731076	EPA 6010	731554
50342912002	**GAMW-56B-042123**	EPA 3010	731076	EPA 6010	731554
50343032001	**GAMW-53-042423**	EPA 3010	731076	EPA 6010	731554
50343032002	**GAMW-53B-042423**	EPA 3010	731076	EPA 6010	731554
50343172001	**GAMW-52-042523**	EPA 3010	731406	EPA 6010	732157
50343172002	**GAMW-52B-042523**	EPA 3010	731406	EPA 6010	732157
50343172003	**FD-03-042523**	EPA 3010	731406	EPA 6010	732157
50343254001	**GAMW-55B-042623**	EPA 3010	731406	EPA 6010	732157
50343254002	**FB-03-042623**	EPA 3010	731406	EPA 6010	732157
50343255001	**GAMW-54-042623**	EPA 3010	731406	EPA 6010	732157
50343255002	**GAMW-54B-042623**	EPA 3010	731406	EPA 6010	732157
50343255003	**GAMW-55R-042623**	EPA 3010	731406	EPA 6010	732157

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343612001	**GAMW-68-050123**	EPA 3010	732537	EPA 6010	733200
50343612002	**GAMW-68B-050123**	EPA 3010	732537	EPA 6010	733200
50343612003	**FB-04-050123**	EPA 3010	732537	EPA 6010	733200
50343612004	**FD-04-050123**	EPA 3010	732537	EPA 6010	733200
50341962001	**GAMW-14-041223**	EPA 200.2	728110	EPA 6020	728323
50341962002	**GAMW-14B-041223**	EPA 200.2	728110	EPA 6020	728323
50342144001	**GAMW-01-041323**	EPA 200.2	728110	EPA 6020	728323
50342144002	**GAMW-01B-041323**	EPA 200.2	728110	EPA 6020	728323
50342290001	**GAMW-03-041423**	EPA 200.2	729332	EPA 6020	729468
50342290002	**GAMW-03B-041423**	EPA 200.2	729332	EPA 6020	729468
50342290003	**GAMW-12-041423**	EPA 200.2	729332	EPA 6020	729468
50342290004	**GAMW-12B-041423**	EPA 200.2	729332	EPA 6020	729468
50342290005	**GAMW-13-041423**	EPA 200.2	729332	EPA 6020	729468
50342290006	**GAMW-13B-041423**	EPA 200.2	729332	EPA 6020	729468
50342402001	**GAMW-51-041523**	EPA 200.2	729332	EPA 6020	729468
50342402002	**GAMW-51B-041523**	EPA 200.2	729332	EPA 6020	729468
50342402003	**GAMW-59-041523**	EPA 200.2	729332	EPA 6020	729468
50342402004	**GAMW-59B-041523**	EPA 200.2	729332	EPA 6020	729468
50342608001	**GAMW-09-041923**	EPA 200.2	729632	EPA 6020	729926
50342608002	**GAMW-09B-041923**	EPA 200.2	729632	EPA 6020	729926
50342608003	**GAMW-17-041923**	EPA 200.2	729632	EPA 6020	729926
50342608004	**GAMW-18-041923**	EPA 200.2	729632	EPA 6020	729926
50342608005	**FD-01-041923**	EPA 200.2	729632	EPA 6020	729926
50342608006	**FB-01-041923**	EPA 200.2	729632	EPA 6020	729926
50342776001	**GAMW-17B-042023**	EPA 200.2	729632	EPA 6020	729926
50342776002	**GAMW-18B-042023**	EPA 200.2	729632	EPA 6020	729926
50342776003	**GAMW-60-042023**	EPA 200.2	729632	EPA 6020	729926
50342776004	**GAMW-60B-042023**	EPA 200.2	729632	EPA 6020	729926
50342776005	**GAMW-16R-042023**	EPA 200.2	729632	EPA 6020	729926
50342776006	**FD-02-042023**	EPA 200.2	729632	EPA 6020	729926
50342776007	**FB-02-042023**	EPA 200.2	729632	EPA 6020	729926
50342909001	**GAMW-08-042123**	EPA 200.2	729632	EPA 6020	729926
50342909002	**GAMW-08B-042123**	EPA 200.2	729632	EPA 6020	729926
50342909003	**GAMW-16BR-042123**	EPA 200.2	729632	EPA 6020	729926
50342912001	**GAMW-56-042123**	EPA 200.2	729632	EPA 6020	729926
50342912002	**GAMW-56B-042123**	EPA 200.2	729632	EPA 6020	729926
50343032001	**GAMW-53-042423**	EPA 200.2	730633	EPA 6020	730839
50343032002	**GAMW-53B-042423**	EPA 200.2	730633	EPA 6020	730839
50343172001	**GAMW-52-042523**	EPA 200.2	730633	EPA 6020	730839
50343172002	**GAMW-52B-042523**	EPA 200.2	730633	EPA 6020	730839
50343172003	**FD-03-042523**	EPA 200.2	730633	EPA 6020	730839
50343254001	**GAMW-55B-042623**	EPA 200.2	730633	EPA 6020	730839
50343254002	**FB-03-042623**	EPA 200.2	730633	EPA 6020	730839
50343255001	**GAMW-54-042623**	EPA 200.2	730633	EPA 6020	730839
50343255002	**GAMW-54B-042623**	EPA 200.2	730633	EPA 6020	730839
50343255003	**GAMW-55R-042623**	EPA 200.2	730633	EPA 6020	730839

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343612001	**GAMW-68-050123**	EPA 200.2	732043	EPA 6020	732222
50343612002	**GAMW-68B-050123**	EPA 200.2	732043	EPA 6020	732222
50343612003	**FB-04-050123**	EPA 200.2	732043	EPA 6020	732222
50343612004	**FD-04-050123**	EPA 200.2	732043	EPA 6020	732222
50341962001	**GAMW-14-041223**	EPA 7470	728756	EPA 7470	729128
50341962002	**GAMW-14B-041223**	EPA 7470	728756	EPA 7470	729128
50342144001	**GAMW-01-041323**	EPA 7470	728758	EPA 7470	729129
50342144002	**GAMW-01B-041323**	EPA 7470	728758	EPA 7470	729129
50342290001	**GAMW-03-041423**	EPA 7470	729845	EPA 7470	730077
50342290002	**GAMW-03B-041423**	EPA 7470	729845	EPA 7470	730077
50342290003	**GAMW-12-041423**	EPA 7470	729845	EPA 7470	730077
50342290004	**GAMW-12B-041423**	EPA 7470	729845	EPA 7470	730077
50342290005	**GAMW-13-041423**	EPA 7470	729845	EPA 7470	730077
50342290006	**GAMW-13B-041423**	EPA 7470	729845	EPA 7470	730077
50342402001	**GAMW-51-041523**	EPA 7470	729845	EPA 7470	730077
50342402002	**GAMW-51B-041523**	EPA 7470	729845	EPA 7470	730077
50342402003	**GAMW-59-041523**	EPA 7470	729845	EPA 7470	730077
50342402004	**GAMW-59B-041523**	EPA 7470	729845	EPA 7470	730077
50342608001	**GAMW-09-041923**	EPA 7470	729970	EPA 7470	731148
50342608002	**GAMW-09B-041923**	EPA 7470	729970	EPA 7470	731148
50342608003	**GAMW-17-041923**	EPA 7470	729970	EPA 7470	731148
50342608004	**GAMW-18-041923**	EPA 7470	729970	EPA 7470	731148
50342608005	**FD-01-041923**	EPA 7470	729970	EPA 7470	731148
50342608006	**FB-01-041923**	EPA 7470	729970	EPA 7470	731148
50342776001	**GAMW-17B-042023**	EPA 7470	730372	EPA 7470	730751
50342776002	**GAMW-18B-042023**	EPA 7470	730372	EPA 7470	730751
50342776003	**GAMW-60-042023**	EPA 7470	730372	EPA 7470	730751
50342776004	**GAMW-60B-042023**	EPA 7470	730372	EPA 7470	730751
50342776005	**GAMW-16R-042023**	EPA 7470	730372	EPA 7470	730751
50342776006	**FD-02-042023**	EPA 7470	730372	EPA 7470	730751
50342776007	**FB-02-042023**	EPA 7470	730372	EPA 7470	730751
50342909001	**GAMW-08-042123**	EPA 7470	730372	EPA 7470	730751
50342909002	**GAMW-08B-042123**	EPA 7470	730372	EPA 7470	730751
50342909003	**GAMW-16BR-042123**	EPA 7470	730372	EPA 7470	730751
50342912001	**GAMW-56-042123**	EPA 7470	730372	EPA 7470	730751
50342912002	**GAMW-56B-042123**	EPA 7470	730372	EPA 7470	730751
50343032001	**GAMW-53-042423**	EPA 7470	730914	EPA 7470	730968
50343032002	**GAMW-53B-042423**	EPA 7470	730914	EPA 7470	730968
50343172001	**GAMW-52-042523**	EPA 7470	730947	EPA 7470	731149
50343172002	**GAMW-52B-042523**	EPA 7470	730947	EPA 7470	731149
50343172003	**FD-03-042523**	EPA 7470	730947	EPA 7470	731149
50343254001	**GAMW-55B-042623**	EPA 7470	730947	EPA 7470	731149
50343254002	**FB-03-042623**	EPA 7470	730947	EPA 7470	731149
50343255001	**GAMW-54-042623**	EPA 7470	730947	EPA 7470	731149
50343255002	**GAMW-54B-042623**	EPA 7470	730947	EPA 7470	731149

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343255003	**GAMW-55R-042623**	EPA 7470	730947	EPA 7470	731149
50343612001	**GAMW-68-050123**	EPA 7470	731914	EPA 7470	732527
50343612002	**GAMW-68B-050123**	EPA 7470	731914	EPA 7470	732527
50343612003	**FB-04-050123**	EPA 7470	731914	EPA 7470	732527
50343612004	**FD-04-050123**	EPA 7470	731914	EPA 7470	732527
50341962001	**GAMW-14-041223**	SM 2540C	728407		
50341962002	**GAMW-14B-041223**	SM 2540C	728407		
50342144001	**GAMW-01-041323**	SM 2540C	728660		
50342144002	**GAMW-01B-041323**	SM 2540C	728660		
50342290001	**GAMW-03-041423**	SM 2540C	728738		
50342290002	**GAMW-03B-041423**	SM 2540C	728738		
50342290003	**GAMW-12-041423**	SM 2540C	728738		
50342290004	**GAMW-12B-041423**	SM 2540C	728738		
50342290005	**GAMW-13-041423**	SM 2540C	728921		
50342290006	**GAMW-13B-041423**	SM 2540C	728921		
50342402001	**GAMW-51-041523**	SM 2540C	728921		
50342402002	**GAMW-51B-041523**	SM 2540C	728921		
50342402003	**GAMW-59-041523**	SM 2540C	728921		
50342402004	**GAMW-59B-041523**	SM 2540C	729143		
50342608001	**GAMW-09-041923**	SM 2540C	729681		
50342608002	**GAMW-09B-041923**	SM 2540C	729698		
50342608003	**GAMW-17-041923**	SM 2540C	729698		
50342608004	**GAMW-18-041923**	SM 2540C	729698		
50342608005	**FD-01-041923**	SM 2540C	729698		
50342608006	**FB-01-041923**	SM 2540C	729698		
50342776001	**GAMW-17B-042023**	SM 2540C	729886		
50342776002	**GAMW-18B-042023**	SM 2540C	729886		
50342776003	**GAMW-60-042023**	SM 2540C	729888		
50342776004	**GAMW-60B-042023**	SM 2540C	729888		
50342776005	**GAMW-16R-042023**	SM 2540C	729888		
50342776006	**FD-02-042023**	SM 2540C	729888		
50342776007	**FB-02-042023**	SM 2540C	729888		
50342909001	**GAMW-08-042123**	SM 2540C	730185		
50342909002	**GAMW-08B-042123**	SM 2540C	730185		
50342909003	**GAMW-16BR-042123**	SM 2540C	730185		
50342912001	**GAMW-56-042123**	SM 2540C	730185		
50342912002	**GAMW-56B-042123**	SM 2540C	730185		
50343032001	**GAMW-53-042423**	SM 2540C	730413		
50343032002	**GAMW-53B-042423**	SM 2540C	730413		
50343172001	**GAMW-52-042523**	SM 2540C	730630		
50343172002	**GAMW-52B-042523**	SM 2540C	730630		
50343172003	**FD-03-042523**	SM 2540C	730630		

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343254001	**GAMW-55B-042623**	SM 2540C	730811		
50343254002	**FB-03-042623**	SM 2540C	730811		
50343255001	**GAMW-54-042623**	SM 2540C	730811		
50343255002	**GAMW-54B-042623**	SM 2540C	730811		
50343255003	**GAMW-55R-042623**	SM 2540C	730811		
50343612001	**GAMW-68-050123**	SM 2540C	731387		
50343612002	**GAMW-68B-050123**	SM 2540C	731387		
50343612003	**FB-04-050123**	SM 2540C	731396		
50343612004	**FD-04-050123**	SM 2540C	731396		
50341962001	**GAMW-14-041223**	SM 4500-H+B	730031		
50341962002	**GAMW-14B-041223**	SM 4500-H+B	730031		
50342144001	**GAMW-01-041323**	SM 4500-H+B	729956		
50342144002	**GAMW-01B-041323**	SM 4500-H+B	730168		
50342290001	**GAMW-03-041423**	SM 4500-H+B	730170		
50342290002	**GAMW-03B-041423**	SM 4500-H+B	730170		
50342290003	**GAMW-12-041423**	SM 4500-H+B	730170		
50342290004	**GAMW-12B-041423**	SM 4500-H+B	730170		
50342290005	**GAMW-13-041423**	SM 4500-H+B	730170		
50342290006	**GAMW-13B-041423**	SM 4500-H+B	730170		
50342402001	**GAMW-51-041523**	SM 4500-H+B	730199		
50342402002	**GAMW-51B-041523**	SM 4500-H+B	730199		
50342402003	**GAMW-59-041523**	SM 4500-H+B	730199		
50342402004	**GAMW-59B-041523**	SM 4500-H+B	730199		
50342608001	**GAMW-09-041923**	SM 4500-H+B	731127		
50342608002	**GAMW-09B-041923**	SM 4500-H+B	731127		
50342608003	**GAMW-17-041923**	SM 4500-H+B	731127		
50342608004	**GAMW-18-041923**	SM 4500-H+B	731127		
50342608005	**FD-01-041923**	SM 4500-H+B	731127		
50342608006	**FB-01-041923**	SM 4500-H+B	731127		
50342776001	**GAMW-17B-042023**	SM 4500-H+B	731310		
50342776002	**GAMW-18B-042023**	SM 4500-H+B	731310		
50342776003	**GAMW-60-042023**	SM 4500-H+B	731310		
50342776004	**GAMW-60B-042023**	SM 4500-H+B	731310		
50342776005	**GAMW-16R-042023**	SM 4500-H+B	731310		
50342776006	**FD-02-042023**	SM 4500-H+B	731310		
50342776007	**FB-02-042023**	SM 4500-H+B	731310		
50342909001	**GAMW-08-042123**	SM 4500-H+B	732145		
50342909002	**GAMW-08B-042123**	SM 4500-H+B	732145		
50342909003	**GAMW-16BR-042123**	SM 4500-H+B	732145		
50342912001	**GAMW-56-042123**	SM 4500-H+B	732145		
50342912002	**GAMW-56B-042123**	SM 4500-H+B	732145		
50343032001	**GAMW-53-042423**	SM 4500-H+B	732299		
50343032002	**GAMW-53B-042423**	SM 4500-H+B	732299		

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341962

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343172001	**GAMW-52-042523**	SM 4500-H+B	732452		
50343172002	**GAMW-52B-042523**	SM 4500-H+B	732452		
50343172003	**FD-03-042523**	SM 4500-H+B	732452		
50343254001	**GAMW-55B-042623**	SM 4500-H+B	732455		
50343254002	**FB-03-042623**	SM 4500-H+B	732455		
50343255001	**GAMW-54-042623**	SM 4500-H+B	732455		
50343255002	**GAMW-54B-042623**	SM 4500-H+B	732456		
50343255003	**GAMW-55R-042623**	SM 4500-H+B	732456		
50343612001	**GAMW-68-050123**	SM 4500-H+B	733176		
50343612002	**GAMW-68B-050123**	SM 4500-H+B	733176		
50343612003	**FB-04-050123**	SM 4500-H+B	733176		
50343612004	**FD-04-050123**	SM 4500-H+B	733176		

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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50341962

50341962

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency	
State / Location	
	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
1	GAMW-01	WT																X	X	X	X	
2	GAMW-01B	WT																X	X	X	X	
3	GAMW-68	WT																X	X	X	X	
4	GAMW-68B	WT																X	X	X	X	
5	GAMW-03	WT																X	X	X	X	
6	GAMW-03B	WT																X	X	X	X	
7	GAMW-12	WT																X	X	X	X	
8	GAMW-12B	WT																X	X	X	X	
9	GAMW-13	WT																X	X	X	X	
10	GAMW-13B	WT																X	X	X	X	
11	GAMW-14 – 041223	WT	G			4/12/23	1340		3	2		1						X	X	X	X	001
12	GAMW-14B – 041223	WT	G			4/12/23	1325		3	2		1						X	X	X	X	002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	FE WSP	4/12/23	1600	FE Danielle Sylvia/Pace	4/13/23	0855	25	Y	Y	Y

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:	DATE Signed:	4/12/23				

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 4/13/23 1222

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):** 2.7°/2.5°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)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

		MeOH (only) / SBS / DI	VIALS					AMBER GLASS							PLASTIC									OTHER					Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
																													Red	Yellow	Green	Black
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																	1	1	1									WT	✓			
12																	1	1	1									WT	✓			

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

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

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CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 50342144

50342144

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	Regulatory Agency	
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO		
Merrillville, IN 46410			Sarah Gilles	Address:			
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:			
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,	State / Location	
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1	IN	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-01 – 041323	WT				4/13/23	1135											X	X	X	X			QU1
2	GAMW-01B – 041323	WT				4/13/23	1250											X	X	X	X			MS/MSD 002
3	GAMW-68	WT																X	X	X	X			
4	GAMW-68B	WT																X	X	X	X			
5	GAMW-03	WT																X	X	X	X			
6	GAMW-03B	WT																X	X	X	X			
7	GAMW-12	WT																X	X	X	X			
8	GAMW-12B	WT																X	X	X	X			
9	GAMW-13	WT																X	X	X	X			
10	GAMW-13B	WT																X	X	X	X			
11	GAMW-14	WT																X	X	X	X			
12	GAMW-14B	WT																X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	WSP	4/13/23	1600	FedEx						
	FedEx	4.14.23	0900	Nick Shields / PACE	4.14.23	0900	0.7	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GUZMAN

SIGNATURE of SAMPLER: [signature]

DATE Signed: 4/13/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 4·14·2023 1129

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):** 0.7/0.7 | | | |
(Initial/Corrected) **RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)**

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Plasti 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)		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:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	Present	Absent	N/A 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:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																	1	1	1									WT	✓			
2																	3	3	3									WT	✓			
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

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

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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50342290

50342290

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	[redacted]	WT																	x	x	x	x		
2	[redacted]	WT																	x	x	x	x		
3	[redacted]	WT																	x	x	x	x		
4	[redacted]	WT																	x	x	x	x		
5	GAMW-03 — 041423	WT	G			4/14/23	1305		4	3		1						x	x	x	x		001
6	GAMW-03B — 041423	WT	G			4/14/23	1430		4	3		1						x	x	x	x		002
7	GAMW-12 — 041423	WT	G			4/14/23	1200		4	3		1						x	x	x	x		003
8	GAMW-12B — 041423	WT	G			4/14/23	1430		4	3		1						x	x	x	x		004
9	GAMW-13 — 041423	WT	G			4/14/23	0945		4	3		1						x	x	x	x		005
10	GAMW-13B — 041423	WT	G			4/14/23	1150		4	3		1						x	x	x	x		006
11	[redacted]	WT																	x	x	x	x		
12	[redacted]	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	[signature] WSP	4/14/23	1700	FedEx						
	Fedex	4/17/23	0800	[signature]	4/17/23	0800	4.8	N	Y	Y

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]					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 4/14/23				

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/15/23 1352 -MW / MCS 4/17/23 0910

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

.6/.6	4.8/4.8		

5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Ziploc

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.** Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form MCS 4/17	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC										OTHER							
		MeOH (only)																													
		SBS																													
		DI																													
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																															
2																															
3																															
4																															
5																	1	1	1									5T	✓			
6																	↓	↓	↓									↓	↓			
7																															
8																															
9																															
10																	↓	↓	↓									↓	↓			
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

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WO# : 50342402

50342402

al Request Document

ll relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:	Section B Required Project Inform	
Company: NiSource_WSP	Report To: Tom Has	e U126177
Address: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO
Merrillville, IN 46410	Sarah Gilles	Address:
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)782-2433 Fax	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT	Project #: 314047789.011	Pace Profile #: 9045-1

Regulatory Agency	
State / Location	
	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
13	[redacted]	WT																X	X	X	X		
14	[redacted]	WT																X	X	X	X		
15	[redacted]	WT																X	X	X	X		
16	GAMW-43	WT																X	X	X	X		
17	[redacted]	WT																X	X	X	X		
18	[redacted]	WT																X	X	X	X		
19	[redacted]	WT																X	X	X	X		
20	GAMW-51 -041523	WT	G			4/15/23	1545		4	3		1						X	X	X	X		
21	GAMW-51B -041523	WT	G			4/15/23	1650		4	3		1						X	X	X	X		
22	[redacted]	WT																X	X	X	X		
23	[redacted]	WT																X	X	X	X		
24	[redacted]	WT																X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	[signature] WSP	4/17/23	1630	Fedex						
	Fedex			Maureen Winlock	4/18/23	0900	2+4	Y	Y	Y
							15	Y	Y	Y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	[signature]			TEMP in C	Received on Ice (Y/N)
SIGNATURE of SAMPLER:		DATE Signed: 4/17/23			Custody Sealed Cooler (Y/N)
					Samples Intact (Y/N)

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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 Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency: | State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
25	[redacted]	WT																	X	X	X	X	
26	GAMW-59 – 041523	WT	G			4/15/23	1810		4	3		1							X	X	X	X	
27	GAMW-59B – 041523	WT	G			4/15/23	1905		4	3		1							X	X	X	X	
28	[redacted]	WT																	X	X	X	X	
29	[redacted]	WT																	X	X	X	X	
30	[redacted]	WT																	X	X	X	X	
31	[redacted]	WT																	X	X	X	X	
32	[redacted]	WT																	X	X	X	X	
33	[redacted]	WT																	X	X	X	X	
34	[redacted]	WT																	X	X	X	X	
35	[redacted]	WT																	X	X	X	X	
36	[redacted]	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	[redacted] WSP	4/17/23	1630	Fedex						
	Fedex			Marcus Winkler	4/18/23	0900	2.4	Y	Y	Y
							1.0			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [redacted]

SIGNATURE of SAMPLER: [redacted] DATE Signed: 4/17/23

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/18/23 1246 - 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):** 2.4/2.4 | 1.5/1.5 | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **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:**		✓				
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: ~~MW~~ GAMW-59B-041523 not labelled with time on containers - mw 4/18/23

COC PAGE 1 of 2

Sample Container Count

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

COC Line Item	WGFU	VIALS: MeOH (only) / SBS / DI / R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																	1	1	1									WT	✓			
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

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

COC PAGE 2 **of** 2

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VIALS: VOA VIAL HS (>6mm)	VIALS: VG9U	VIALS: DG9U	VIALS: VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																	1	1	1									SW	✓			
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

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

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CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 50342608

50342608

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140489.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
25	GAMW-58B	WT																	x	x	x	x		
26	GAMW-59	WT																	x	x	x	x		
27	GAMW-59B	WT																	x	x	x	x		
28	GAMW-60	WT																	x	x	x	x		
29	GAMW-60B	WT																	x	x	x	x		
30	GAMW-08	WT																	x	x	x	x		
31	GAMW-08B	WT																	x	x	x	x		
32	GAMW-09 – 041923	WT	G			4/19/23	1020		3	2		1							x	x	x	x		001
33	GAMW-09B – 041923	WT	G			4/19/23	1205		3	2		1							x	x	x	x		002
34	GAMW-16R	WT																	x	x	x	x		
35	GAMW-16BR	WT																	x	x	x	x		
36	GAMW-17 – 041923	WT	G			4/19/23	1340		3	2		1							x	x	x	x		003

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	FEDEX	4/19/23		FEDEX						
	FEDEX	4/20/23	0910		4/20/23	0910	2.3	Y	Y	Y
							2.8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. BUZZMAN

SIGNATURE of SAMPLER:

DATE Signed: 4/19/23

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 of 3

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Y/N							
37	[redacted]	WT																		x	x	x	x		
38	GAMW-18 - 041923	WT	G			4/19/23	1340		3	2		1								x	x	x	x		004
39	[redacted]	WT																		x	x	x	x		
40	[redacted]	WT																		x	x	x	x		
41	GAMW-46B	WT																		x	x	x	x		
42	GAMW-52	WT																		x	x	x	x		
43	[redacted]	WT																		x	x	x	x		
44	[redacted]	WT																		x	x	x	x		
45	GAMW-53B	WT																		x	x	x	x		
46	[redacted]	WT																		x	x	x	x		
47	[redacted]	WT																		x	x	x	x		
48	GAMW-55R	WT																		x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	[redacted] TWSP	4/19/23		TWSP						
	TWSP	4/20/23	0910		4/20/23	0910	2.3	Y	Y	Y
							2.8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. SUZMAN

SIGNATURE of SAMPLER: [redacted]

DATE Signed: 4/19/23

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 3 Of 3

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																								
49	GAMW-55R	WT																	x	x	x	x		
50	GAMW-56	WT																	x	x	x	x		
51	GAMW-56R	WT																	x	x	x	x		
52	FD-01 – 041923	WT	G			4/19/23	1200		3	2		1							x	x	x	x		005
53	FD-02	WT																	x	x	x	x		
54	FD-03	WT																	x	x	x	x		
55	FD-04	WT																	x	x	x	x		
56	FD-05	WT																	x	x	x	x		
57	FB-01 – 041923	WT	G			4/19/23	1345		3	2		1							x	x	x	x		004
58	FB-02	WT																	x	x	x	x		
59	FB-03	WT																	x	x	x	x		
60	FB-04	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	WSP	4/19/23		FedEx						
	FedEx	4/20/23	0900		4/20/23	0900	2.3	7	7	7
							2.8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. Guzman

SIGNATURE of SAMPLER: DATE Signed: 4/19/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: [illegible] 4/25/23 1145

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):** 2.3/2.3 | 2.2/2.8 | | |
(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)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:		✓	

COMMENTS:

COC PAGE 1 **of** 3

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																	1	1	1									5	✓			
9																	1	1	1									5	✓			
10																																
11																																
12																	1	1	1									5	✓			

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 2 of 3

Sample Container Count

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

			VIALS						AMBER GLASS							PLASTIC										OTHER						
		MeOH (only)																													
		SBS																													
		DI																													
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																															
2																	I	I	I									KS	✓			
3																															
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DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
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CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
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BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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BP4U	125mL unpreserved plastic
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WP	Wipe

COC PAGE 3 of 3

Sample Container Count

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

			VIALS						AMBER GLASS							PLASTIC										OTHER								
		MeOH (only)																															
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		DI																															
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
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4																	1	1	1									MS	✓				
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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
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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

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

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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50342776

50342776

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency: —
State / Location: IN

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
37	GAMW-17B – 042023	WT	G			4/20/23	1025		3		2	1							x	x	x	x		MS3/MSD3 (U)
38	[redacted]	WT																	x	x	x	x		-
39	GAMW-18B – 042023	WT	G			4/20/23	1005		3		2	1							x	x	x	x		U2
40	[redacted]	WT																	x	x	x	x		
41	[redacted]	WT																	x	x	x	x		
42	[redacted]	WT																	x	x	x	x		
43	[redacted]	WT																	x	x	x	x		
44	[redacted]	WT																	x	x	x	x		
45	[redacted]	WT																	x	x	x	x		
46	[redacted]	WT																	x	x	x	x		
47	[redacted]	WT																	x	x	x	x		
48	[redacted]	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	WSP	4/20/23	1630							
	Fedex	4/21/23	0910		4/21/23	0910	Gw	Y	Y	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:
DATE Signed: 4/20/23

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
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	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency: | State / Location: IN

Requested Analysis Filtered (Y/N)

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25	[redacted]	WT																	X	X	X	X		
26	[redacted]	WT																	X	X	X	X		
27	[redacted]	WT																	X	X	X	X		
28	GAMW-60 – 042023	WT	G			4/20/23	1115		3	2		1						X	X	X	X		003
29	GAMW-60B – 042023	WT	G			4/20/23	1225		3	2		1						X	X	X	X		004
30	[redacted]	WT																	X	X	X	X		
31	[redacted]	WT																	X	X	X	X		
32	[redacted]	WT																	X	X	X	X		
33	[redacted]	WT																	X	X	X	X		
34	GAMW-16R – 042023	WT	G			4/20/23	1355		3	2		1						X	X	X	X		005
35	[redacted]	WT																	X	X	X	X		
36	[redacted]	WT																	X	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	WSP	4/20/23	1630							
	Fedex	4/21/23	0910		4/21/23	0910	SOC Cur	4	4	4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/20/23

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CHAIN-OF-CUSTODY / Analytical Request Document

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	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140478 9.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
49	[redacted]	WT																		x	x	x	x	
50	[redacted]SAMW-56	WT																		x	x	x	x	
51	[redacted]	WT																		x	x	x	x	
52	[redacted]FB-01	WT																		x	x	x	x	
53	FD-02 – 042023	WT	G			4/20/23	1200		3	2		1								x	x	x	x	UCL
54	[redacted]	WT																		x	x	x	x	
55	[redacted]FB-04	WT																		x	x	x	x	
56	[redacted]FD-05	WT																		x	x	x	x	
57	[redacted]	WT																		x	x	x	x	
58	FB-02 – 042023	WT	G			4/20/23	1230		3	[redacted]		1								x	x	x	x	007
59	[redacted]	WT																		x	x	x	x	
60	[redacted]FB-04	WT																		x	x	x	x	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	WSP	4/20/23	1630							
	Fedex	4/21/23	0910		4/21/23	0910	See Env	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GUZMAN

SIGNATURE of SAMPLER: [signature] DATE Signed: 4/20/23

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MCS 4/21/23 1033

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

1.1/1.2	1.1/1.2	1.4/1.5	

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.** **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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 3

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																	3	3	3													
2																																
3																	1	1	1										✓			
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

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

COC PAGE 2 of 3

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER							
		MeOH (only) / SBS / DI																												
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																														
2																														
3																														
4																	1	1	1									SW	✓		
5																	1	1	1									SW	✓		
6																														
7																														
8																														
9																														
10																	1	1	1									SW	✓		
11																														
12																														

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
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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

Plastic

BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
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SL	Solid-Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 3 of 3

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER								
		MeOH (only)																													
		SBS																													
		DI																													
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																															
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4																															
5																	1	1	1									NT ✓			
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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
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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

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

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ZPLC	Ziploc Bag
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GN	General Container
U	Summa Can (air sample)
WT	Water
~~SL~~	~~Solid-Solid~~
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

WO# : 50342909

50342909

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N-OF-CUSTODY / Analytical Request Document

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Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-1

Regulatory Agency:

State / Location: IN

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	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																	Y/N						
25	[redacted]	WT																	x	x	x	x		
26	[redacted]	WT																	x	x	x	x		
27	[redacted]	WT																	x	x	x	x		
28	[redacted]	WT																	x	x	x	x		
29	[redacted]	WT																	x	x	x	x		
30	GAMW-08 — 042123	WT	G			4/21/23	0955		3	2		1							x	x	x	x		001
31	GAMW-08B — 042123	WT	G			4/21/23	1050		3	2		1							x	x	x	x		002
32	[redacted]	WT																	x	x	x	x		
33	[redacted]	WT																	x	x	x	x		
34	[redacted]	WT																	x	x	x	x		
35	GAMW-16BR — 042123	WT	G			4/21/23	0940		3	2		1							x	x	x	x		003
36	[redacted]	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	WSP	4/21/23	1630	FedEx						
	FedEx	4.22.23	0915	Nicole Shields / PACE	4.22.23	0915	0.4 / 0.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [redacted]

SIGNATURE of SAMPLER: [redacted] DATE Signed: 4/21/23

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 4.22.2023 0940

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):** 0.4/0.4 | 0.3/0.3 | | |
(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)		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: ~~Nitrates by 353.2~~ NMS 4.22.23	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:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VIALS: VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																	1	1	1									WT	✓			
7																	1	1	1									WT	✓			
8																																
9																																
10																																
11																	1	1	1									WT	✓			
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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# : 50342912

50342912

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 Client	Section C Invoice Information:	
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177
Address: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO
Merrillville, IN 46410	Sarah Gilles	Address:
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT	Project #: 3140 4789.011	Pace Profile #: 9045-1

Regulatory Agency

State / Location: IN

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

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
49	GAMW-56B	WT																	x	x	x	x		
50	GAMW-56 – 042123	WT	G			4/21/23	1055		3	2		1							x	x	x	x		001
51	GAMW-56B – 042123	WT	G			4/21/23	1330		3	2		1							x	x	x	x		002
52	FB-01	WT																	x	x	x	x		
53	FB-02	WT																	x	x	x	x		
54	FB-03	WT																	x	x	x	x		
55	FD-04	WT																	x	x	x	x		
56	FD-05	WT																	x	x	x	x		
57	FB-01	WT																	x	x	x	x		
58	FB-02	WT																	x	x	x	x		
59	FB-03	WT																	x	x	x	x		
60	FB-04	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	WSP	4/21/23	1630	FedEx						
	FedEx	4-22-23	0915	Nicole Shields / PACE	4-22-23	0915	0.4; 0.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. BRANDT

SIGNATURE of SAMPLER: DATE Signed: 4/21/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 4.22.2023 0940

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):** (Initial/Corrected)

0.4/0.4	0.3/0.3		

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)		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:** Nitrates by 353.2 NMS 4.22.23	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:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																	1	1	1									WT	✓			
3																	1	1	1									WT	✓			
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

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

Pace Analytical
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WO# : 50343032

50343032

Request Document

evant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:			
Company:	NiSource_WSP	Report To:	Tom Haskins	Jeff Loewe U126177	
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, [illegible] Sylvia	Company Name:	NIPSCO
Merrillville, IN 46410		Sarah Gilles		Address:	Regulatory Agency
Email:	Thomas.Haskins@wsp.com	Purchase Order #	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com, State / Location
Requested Due Date:	10 day TAT	Project #:	31404783.011/04	Pace Profile #:	9045-1 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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
37	[redacted]	WT																	X	X	X	X	
38	[redacted]	WT																	X	X	X	X	
39	[redacted]	WT																	X	X	X	X	
40	[redacted]	WT																	X	X	X	X	
41	[redacted]	WT																	X	X	X	X	
42	[redacted]	WT																	X	X	X	X	
43	[redacted]	WT																	X	X	X	X	
44	GAMW-53 - 042423	WT	G			4/24/23	1105		3	2		1							X	X	X	X	
45	GAMW-53B - 042423	WT	G			4/24/23	1250		3	2		1							X	X	X	X	
46	[redacted]	WT																	X	X	X	X	
47	[redacted]	WT																	X	X	X	X	
48	[redacted]	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	WSP	4/24/23	1600	FDEX						
	FDEX	4/25/23	0800		4/25/23	0800	1.1	>	>	>

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/24/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/25/23 1145

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):** 13/11 _____ _____ _____
(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)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:		✓	

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER							
			SBS																											Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ Zn
			DI																											Red	Yellow	Green	Blue
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH Ac Zn
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																	1	1	1									SW	✓			
9																	1	1	1									SW	✓			
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

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

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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50343172

50343172

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	Regulatory Agency
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Locaties
Requested Due Date: 10 day TAT	Project #: 31404789.011/04	Pace Profile #: 9045-1	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
37	[redacted]	WT																	X	X	X	X	
38	[redacted]	WT																	X	X	X	X	
39	[redacted]	WT																	X	X	X	X	
40	[redacted]	WT																	X	X	X	X	
41	[redacted]	WT							(6)										X	X	X	X	
42	GAMW-52 – 042523	WT	G			4/25/23	0925		3	2		1							X	X	X	X	
43	GAMW-52B – 042523	WT	G			4/25/23	1110		3	2		1							X	X	X	X	
44	[redacted]	WT																	X	X	X	X	
45	[redacted]	WT																	X	X	X	X	
46	GAMW-54	WT																	X	X	X	X	
47	GAMW-54B	WT																	X	X	X	X	
48	[redacted]	WT																	X	X	X	X	

Residual Chlorine (Y/N): 001; MS2/MSD2 002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**48 HOUR HOLD- Nitrate 353.2	[signature] / WSP	4/25/23	1300	[signature]			
	[signature]	4/26	0745	[signature]	4/26	0745	0.7 / 0.3

SAMPLER NAME AND SIGNATURE			SAMPLE CONDITIONS			
PRINT Name of SAMPLER: [signature]			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER: [signature]	DATE Signed: 4/25/23		0.7 / 0.3	Y	Y	Y

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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 Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011/04	Pace Profile #:	9045-1

Regulatory Agency:

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
48	[redacted]	WT																	x	x	x	x		
50	GAMW-56	WT																	x	x	x	x		
51	GAMW-56B	WT																	x	x	x	x		
52	[redacted]	WT																	x	x	x	x		
53	[redacted]	WT																	x	x	x	x		
54	FD-03 – 042523	WT	G			4/25/23	1200		3	2		1							x	x	x	x		003
55	[redacted]	WT																	x	x	x	x		
56	[redacted]	WT																	x	x	x	x		
57	[redacted]	WT																	x	x	x	x		
58	[redacted]	WT																	x	x	x	x		
59	[redacted]	WT																	x	x	x	x		
60	FB-04	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	[signature] WSP	4/25/23	1300	[signature]						
	[signature]	4/26	0809	[signature]	4/26	0905	0.7	Y	Y	Y
							0.5			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: [signature]

DATE Signed: 4/25/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 04/26/23 1325 SMK

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

0.7/0.7	0.5/0.5		

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.** **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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

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

			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
		MeOH (only) SBS DI																													
COC Line Item	WGFU	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						
1																															
2																															
3																															
4																															
5																															
6																	1/3	1/3	1/3								4	✓			
7																											1	✓			
8																															
9																															
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 2 of 2

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER					
		SBS																											
		DI																											
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																														
2																														
3																														
4																														
5																														
6																	1	1	1									4	✓			
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

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CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 50343254

50343254

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency:

State / Location: IN

Requested Analysis Filtered (Y/N)

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	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
49	GAMW-55B -042623	WT	G			4/24/23	1355		3	2		1						X	X	X	X		001
50	[redacted]	WT																X	X	X	X		
51	[redacted]GAMW-56B	WT																X	X	X	X		
52	[redacted]	WT																X	X	X	X		
53	FD-02	WT																X	X	X	X		
54	[redacted]	WT																X	X	X	X		
55	[redacted]	WT																X	X	X	X		
56	[redacted]	WT																X	X	X	X		
57	[redacted]	WT																X	X	X	X		
58	[redacted]	WT																X	X	X	X		
59	FB-03 -042623	WT	G			4/24/23	1130		3	2		1						X	X	X	X		
60	[redacted]	WT																X	X	X	X		002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	WSP	4/24/23	1600							
	FG	4/27/23	0855	FG	4/27/23	0855	SEC	4	4	4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/24/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DD 4/27/23 1127

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):** 1.9/1.7 | 2.0/1.8 | | |
   (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:** Nitrate	✓					
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

			VIALS						AMBER GLASS							PLASTIC									OTHER						
		MeOH (only)																												
		SBS																												
		DI																												
COC Line Item	WGFU	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	Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																	/	/	/								WT	✓			
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																	/	/	/								WT	✓			
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

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

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CHAIN-OF-CUSTODY / Analytical Request Doc

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

WO# : 50343255

50343255

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
37	[redacted]	WT																	x	x	x	x		
38	[redacted]	WT																	x	x	x	x		
39	[redacted]	WT																	x	x	x	x		
40	[redacted]	WT																	x	x	x	x		
41	[redacted]	WT																	x	x	x	x		
42	[redacted]	WT																	x	x	x	x		
43	[redacted]	WT																	x	x	x	x		
44	[redacted]	WT																	x	x	x	x		
45	[redacted]	WT																	x	x	x	x		
46	GAMW-54 – 042623	WT	G			4/26/23	1005		3	2		1						x	x	x	x		UU1
47	GAMW-54B – 042623	WT	G			4/26/23	1120		3	2		1						x	x	x	x		UU2
48	GAMW-55R – 042623	WT	G			4/26/23	1235		3	2		1						x	x	x	x		UU3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	WSP	4/26/23	1600	FED EX						
	FED EX	4/27/23	0857		4/27/23	0805	4	4	4	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:			
SIGNATURE of SAMPLER:		DATE Signed:	4/26/23

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

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DD 4/27/23 1127

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):** 1.9/1.7 | 2.0/1.8 | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:** Nitrate	✓					
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):	Present	Absent	No VOA Vials Sent
Containers Intact?:	✓		See Containter Count form for details			✓
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:

COC PAGE ____ of ____

Sample Container Count

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

			VIALS						AMBER GLASS							PLASTIC										OTHER							
		MeOH (only)																														
		SBS																														
		DI																														
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																	I	I	I													
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50343612

50343612

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
1	[redacted]	WT																	x	x	x	x	
2	[redacted]	WT																	x	x	x	x	
3	GAMW-68 — 050123	WT	G			5/1/23			3	2		1							x	x	x	x	
4	GAMW-68B — 050123	WT	G			5/1/23			3	2		1							x	x	x	x	
5	[redacted]	WT																	x	x	x	x	
6	[redacted]	WT																	x	x	x	x	
7	[redacted]	WT																	x	x	x	x	
8	[redacted]	WT																	x	x	x	x	
9	[redacted]	WT																	x	x	x	x	
10	[redacted]	WT																	x	x	x	x	
11	GAMW-14	WT																	x	x	x	x	
12	GAMW-14B	WT																	x	x	x	x	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	WSP	5/1/23	1700							
		5/2	0920		5/2	0920	0.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 5/1/23

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

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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 Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	21404789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
61	[redacted] FB-04 - 050123	WT	G			5/1/23	1445		3	2		1							x	x	x	x		Q3
62	[redacted]																								
63	[redacted]																								
64	[redacted]																								
65	[redacted]																								
66	[redacted]																								
67	[redacted]																								
68	[redacted]																								
69	[redacted]																								
70	[redacted]																								
71	[redacted]																								
72	[redacted]																								

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	[signature] WSP	5/1/23	1700	[signature]						
	[signature]	5/2	0420	[signature]	5/2	0420	0.9	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: [signature]

DATE Signed: 5/1/23

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

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 05/02/23 1240 SmK

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):** 6.9/6.9 _____ _____ _____
   (Initial/Corrected) **RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)**
5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS: Rcvd another FD-04-050123 @ 1200 not on COC-SmK

Analyze FD-04-050123 per D. Sylvia email. 05/02/23tms

COC PAGE 1 of 2

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																	1	1	1									W	V			
4																	1	1	1									W	V			
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

ontainer Codes

Glass

G9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
G9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
G9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
G9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
G9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
G9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
G9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
G9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
GKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
GFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
FU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
G3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
G3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 2 of 2

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit	Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																	1	1	1								SW	✓			
2																	↓	↓	↓	FD-04_050123							↓	✓			
3																							5/1/23	@	1200						
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
GFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
G3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
G3F	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

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 19, 2023

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

RE: Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between April 13, 2023 and May 02, 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

Revised report replaces report dated 05/25/23. Samples moved per client request. 06/19/23tms

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

Sincerely,

Tina Sayer

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50341961001	**GAMW-14-041223**	Water	04/12/23 13:40	04/13/23 08:55
50341961002	**GAMW-14B-041223**	Water	04/12/23 13:25	04/13/23 08:55
50342143001	**GAMW-01-041323**	Water	04/13/23 11:35	04/14/23 09:00
50342143002	**GAMW-01B-041323**	Water	04/13/23 12:50	04/14/23 09:00
50342143003	**GAMW-01B-041323 MS**	Water	04/13/23 12:50	04/14/23 09:00
50342143004	**GAMW-01B-041323 MSD**	Water	04/13/23 12:50	04/14/23 09:00
50342291001	**GAMW-03-041423**	Water	04/14/23 13:05	04/17/23 08:00
50342291002	**GAMW-03B-041423**	Water	04/14/23 14:30	04/17/23 08:00
50342291003	**GAMW-12-041423**	Water	04/14/23 12:00	04/17/23 08:00
50342291004	**GAMW-12B-041423**	Water	04/14/23 14:30	04/17/23 08:00
50342291005	**GAMW-13-041423**	Water	04/14/23 09:45	04/17/23 08:00
50342291006	**GAMW-13B-041423**	Water	04/14/23 11:50	04/17/23 08:00
50342385001	**GAMW-51-041523**	Water	04/15/23 15:45	04/18/23 09:00
50342385002	**GAMW-51B-041523**	Water	04/15/23 16:50	04/18/23 09:00
50342385003	**GAMW-59-041523**	Water	04/15/23 18:10	04/18/23 09:00
50342385004	**GAMW-59B-041523**	Water	04/15/23 19:05	04/18/23 09:00
50342609001	**GAMW-09-041923**	Water	04/19/23 10:20	04/20/23 09:10
50342609002	**GAMW-09B-041923**	Water	04/19/23 12:05	04/20/23 09:10
50342609003	**GAMW-17-041923**	Water	04/19/23 13:40	04/20/23 09:10
50342609004	**GAMW-18-041923**	Water	04/19/23 13:40	04/20/23 09:10
50342609005	**FD-01-041923**	Water	04/19/23 12:00	04/20/23 09:10
50342609006	**FB-01-041923**	Water	04/19/23 13:45	04/20/23 09:10
50342779001	**GAMW-17B-042023**	Water	04/20/23 10:25	04/21/23 09:10
50342779002	**GAMW-18B-042023**	Water	04/20/23 10:05	04/21/23 09:10
50342779003	**GAMW-60-042023**	Water	04/20/23 11:15	04/21/23 09:10
50342779004	**GAMW-60B-042023**	Water	04/20/23 12:25	04/21/23 09:10
50342779005	**GAMW-16R-042023**	Water	04/20/23 13:55	04/21/23 09:10
50342779006	**FD-02-042023**	Water	04/20/23 12:00	04/21/23 09:10
50342779007	**FB-02-042023**	Water	04/20/23 12:30	04/21/23 09:10
50342779008	**GAMW-17B-042023 MS**	Water	04/20/23 10:25	04/21/23 09:10
50342779009	**GAMW-17B-042023 MSD**	Water	04/20/23 10:25	04/21/23 09:10
50342910001	**GAMW-56-042123**	Water	04/21/23 10:55	04/22/23 09:15
50342910002	**GAMW-56B-042123**	Water	04/21/23 13:30	04/22/23 09:15
50342911003	**GAMW-16BR-042123**	Water	04/21/23 09:40	04/22/23 09:15
50342911001	**GAMW-08-042123**	Water	04/21/23 09:55	04/22/23 09:15
50342911002	**GAMW-08B-042123**	Water	04/21/23 10:50	04/22/23 09:15
50343023001	**GAMW-53-042423**	Water	04/24/23 11:05	04/25/23 09:00

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

SAMPLE SUMMARY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50343023002	**GAMW-53B-042423**	Water	04/24/23 12:50	04/25/23 09:00
50343169001	**GAMW-52-042523**	Water	04/25/23 09:25	04/26/23 09:05
50343169002	**GAMW-52B-042523**	Water	04/25/23 11:10	04/26/23 09:05
50343169003	**GAMW-52B-042523 MS**	Water	04/25/23 11:10	04/26/23 09:05
50343169004	**GAMW-52B-042523 MSD**	Water	04/25/23 11:10	04/26/23 09:05
50343169005	**FD-03-042523**	Water	04/25/23 12:00	04/26/23 09:05
50343609001	**GAMW-68-050123**	Water	05/01/23 12:25	05/02/23 09:20
50343609002	**GAMW-68B-050123**	Water	05/01/23 14:40	05/02/23 09:20
50343609003	**FB-04-050123**	Water	05/01/23 14:45	05/02/23 09:20
50343609004	**FD-04-050123**	Water	05/01/23 12:00	05/02/23 09:20
50343265001	**GAMW-54-042623**	Water	04/26/23 10:05	04/27/23 08:55
50343265002	**GAMW-54B-042623**	Water	04/26/23 11:20	04/27/23 08:55
50343265003	**GAMW-55R-042623**	Water	04/26/23 12:35	04/27/23 08:55
50343266001	**GAMW-55B-042623**	Water	04/26/23 13:55	04/27/23 08:55
50343266002	**FB-03-042623**	Water	04/26/23 11:30	04/27/23 08:55

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50341961001	**GAMW-14-041223**	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50341961002	**GAMW-14B-041223**	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342143001	**GAMW-01-041323**	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342143002	**GAMW-01B-041323**	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342143003	**GAMW-01B-041323 MS**	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50342143004	**GAMW-01B-041323 MSD**	EPA 903.1	JDZ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
50342291001	**GAMW-03-041423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342291002	**GAMW-03B-041423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342291003	**GAMW-12-041423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342291004	**GAMW-12B-041423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342291005	**GAMW-13-041423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342291006	**GAMW-13B-041423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342385001	**GAMW-51-041523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50342385002	**GAMW-51B-041523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342385003	**GAMW-59-041523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342385004	**GAMW-59B-041523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342609001	**GAMW-09-041923**	EPA 903.1	JAL	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342609002	**GAMW-09B-041923**	EPA 903.1	JAL	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342609003	**GAMW-17-041923**	EPA 903.1	JAL	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342609004	**GAMW-18-041923**	EPA 903.1	JAL	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342609005	**FD-01-041923**	EPA 903.1	JAL	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342609006	**FB-01-041923**	EPA 903.1	JAL	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342779001	**GAMW-17B-042023**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342779002	**GAMW-18B-042023**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342779003	**GAMW-60-042023**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342779004	**GAMW-60B-042023**	EPA 903.1	CLM	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342779005	**GAMW-16R-042023**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342779006	**FD-02-042023**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342779007	**FB-02-042023**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342779008	**GAMW-17B-042023 MS**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50342779009	**GAMW-17B-042023 MSD**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50342910001	**GAMW-56-042123**	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342910002	**GAMW-56B-042123**	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342911003	**GAMW-16BR-042123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342911001	**GAMW-08-042123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50342911002	**GAMW-08B-042123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343023001	**GAMW-53-042423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343023002	**GAMW-53B-042423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343169001	**GAMW-52-042523**	EPA 903.1	CLM	1	PASI-PA

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50343169002	**GAMW-52B-042523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50343169003	**GAMW-52B-042523 MS**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50343169004	**GAMW-52B-042523 MSD**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
50343169005	**FD-03-042523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50343609001	**GAMW-68-050123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343609002	**GAMW-68B-050123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343609003	**FB-04-050123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343609004	**FD-04-050123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343265001	**GAMW-54-042623**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343265002	**GAMW-54B-042623**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343265003	**GAMW-55R-042623**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343266001	**GAMW-55B-042623**	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343266002	**FB-03-042623**	EPA 903.1	JLJ	1	PASI-PA

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(317)228-3100

SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

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

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50341961001	**GAMW-14-041223**					
EPA 903.1	Radium-226	-0.219 ± 0.380 (0.957) C:NA T:97%	pCi/L		04/27/23 15:16	
EPA 904.0	Radium-228	0.135 ± 0.408 (0.914) C:72% T:87%	pCi/L		04/25/23 15:10	
Total Radium Calculation	Total Radium	0.135 ± 0.788 (1.87)	pCi/L		04/27/23 17:48	
50341961002	**GAMW-14B-041223**					
EPA 903.1	Radium-226	1.25 ± 0.685 (0.790) C:NA T:91%	pCi/L		04/27/23 15:16	
EPA 904.0	Radium-228	1.52 ± 0.582 (0.917) C:73% T:86%	pCi/L		04/25/23 15:10	
Total Radium Calculation	Total Radium	2.77 ± 1.27 (1.71)	pCi/L		04/27/23 17:48	
50342143001	**GAMW-01-041323**					
EPA 903.1	Radium-226	0.400 ± 0.369 (0.538) C:NA T:83%	pCi/L		05/04/23 15:54	
EPA 904.0	Radium-228	0.218 ± 0.368 (0.802) C:80% T:83%	pCi/L		04/26/23 14:57	
Total Radium Calculation	Total Radium	0.618 ± 0.737 (1.34)	pCi/L		05/05/23 10:30	
50342143002	**GAMW-01B-041323**					
EPA 903.1	Radium-226	1.08 ± 0.530 (0.609) C:NA T:87%	pCi/L		05/04/23 15:54	
EPA 904.0	Radium-228	1.11 ± 0.429 (0.643) C:83% T:87%	pCi/L		04/26/23 14:58	
Total Radium Calculation	Total Radium	2.19 ± 0.959 (1.25)	pCi/L		05/05/23 10:30	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342143003	**GAMW-01B-041323 MS**					
EPA 903.1	Radium-226	67.24 %REC ± NA (NA) C:NA T:NA	pCi/L		05/04/23 15:54	1d
EPA 904.0	Radium-228	66.09 %REC ± NA (NA) C:NA T:NA	pCi/L		04/26/23 14:58	
50342143004	**GAMW-01B-041323 MSD**					
EPA 903.1	Radium-226	78.17 %REC 15.03RPD ± NA (NA) C:NA T:NA	pCi/L		05/04/23 16:06	
EPA 904.0	Radium-228	65.17 %REC 1.39RPD ± NA (NA) C:NA T:NA	pCi/L		04/26/23 14:58	
50342291001	**GAMW-03-041423**					
EPA 903.1	Radium-226	0.122 ± 0.379 (0.734) C:NA T:85%	pCi/L		05/01/23 16:03	
EPA 904.0	Radium-228	0.443 ± 0.399 (0.808) C:77% T:83%	pCi/L		04/27/23 15:49	
Total Radium Calculation	Total Radium	0.565 ± 0.778 (1.54)	pCi/L		05/03/23 12:51	
50342291002	**GAMW-03B-041423**					
EPA 903.1	Radium-226	0.175 ± 0.442 (0.821) C:NA T:87%	pCi/L		05/01/23 16:03	
EPA 904.0	Radium-228	0.227 ± 0.351 (0.758) C:78% T:85%	pCi/L		04/27/23 15:54	
Total Radium Calculation	Total Radium	0.402 ± 0.793 (1.58)	pCi/L		05/03/23 12:51	
50342291003	**GAMW-12-041423**					
EPA 903.1	Radium-226	0.761 ± 0.796 (1.25) C:NA T:88%	pCi/L		05/05/23 12:46	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50342291003	**GAMW-12-041423**					
EPA 904.0	Radium-228	0.380 ± 0.365 (0.745) C:80% T:84%	pCi/L		04/27/23 15:54	
Total Radium Calculation	Total Radium	1.14 ± 1.16 (2.00)	pCi/L		05/05/23 15:39	
50342291004	**GAMW-12B-041423**					
EPA 903.1	Radium-226	0.266 ± 0.452 (0.798) C:NA T:94%	pCi/L		05/01/23 16:03	
EPA 904.0	Radium-228	0.528 ± 0.407 (0.789) C:74% T:81%	pCi/L		04/27/23 15:54	
Total Radium Calculation	Total Radium	0.794 ± 0.859 (1.59)	pCi/L		05/03/23 12:51	
50342291005	**GAMW-13-041423**					
EPA 903.1	Radium-226	0.203 ± 0.479 (0.887) C:NA T:84%	pCi/L		05/01/23 16:03	
EPA 904.0	Radium-228	0.286 ± 0.375 (0.799) C:76% T:83%	pCi/L		04/27/23 15:54	
Total Radium Calculation	Total Radium	0.489 ± 0.854 (1.69)	pCi/L		05/03/23 12:51	
50342291006	**GAMW-13B-041423**					
EPA 903.1	Radium-226	0.194 ± 0.492 (0.913) C:NA T:89%	pCi/L		05/01/23 16:19	
EPA 904.0	Radium-228	0.448 ± 0.374 (0.743) C:77% T:85%	pCi/L		04/27/23 15:57	
Total Radium Calculation	Total Radium	0.642 ± 0.866 (1.66)	pCi/L		05/03/23 12:51	
50342385001	**GAMW-51-041523**					
EPA 903.1	Radium-226	0.289 ± 0.469 (0.816) C:NA T:94%	pCi/L		05/03/23 14:13	

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50342385001	**GAMW-51-041523**					
EPA 904.0	Radium-228	0.442 ± 0.401 (0.814) C:76% T:83%	pCi/L		05/01/23 15:04	
Total Radium Calculation	Total Radium	0.731 ± 0.870 (1.63)	pCi/L		05/05/23 10:39	
50342385002	**GAMW-51B-041523**					
EPA 903.1	Radium-226	1.53 ± 0.698 (0.709) C:NA T:90%	pCi/L		05/03/23 14:13	
EPA 904.0	Radium-228	1.42 ± 0.496 (0.656) C:79% T:82%	pCi/L		05/01/23 15:04	
Total Radium Calculation	Total Radium	2.95 ± 1.19 (1.37)	pCi/L		05/05/23 10:39	
50342385003	**GAMW-59-041523**					
EPA 903.1	Radium-226	-0.0547 ± 0.355 (0.771) C:NA T:98%	pCi/L		05/03/23 14:13	
EPA 904.0	Radium-228	0.609 ± 0.371 (0.680) C:81% T:86%	pCi/L		05/01/23 15:04	
Total Radium Calculation	Total Radium	0.609 ± 0.726 (1.45)	pCi/L		05/05/23 10:39	
50342385004	**GAMW-59B-041523**					
EPA 903.1	Radium-226	0.545 ± 0.588 (0.949) C:NA T:94%	pCi/L		05/03/23 14:13	
EPA 904.0	Radium-228	1.25 ± 0.497 (0.767) C:80% T:82%	pCi/L		05/01/23 15:04	
Total Radium Calculation	Total Radium	1.80 ± 1.09 (1.72)	pCi/L		05/05/23 10:39	
50342609001	**GAMW-09-041923**					
EPA 903.1	Radium-226	0.724 ± 0.568 (0.790) C:NA T:93%	pCi/L		05/11/23 13:30	

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50342609001	**GAMW-09-041923**					
EPA 904.0	Radium-228	0.350 ± 0.419 (0.885) C:78% T:76%	pCi/L		05/04/23 15:16	
Total Radium Calculation	Total Radium	1.07 ± 0.987 (1.68)	pCi/L		05/12/23 15:41	
50342609002	**GAMW-09B-041923**					
EPA 903.1	Radium-226	0.363 ± 0.338 (0.445) C:NA T:94%	pCi/L		05/11/23 13:43	
EPA 904.0	Radium-228	0.655 ± 0.453 (0.888) C:79% T:86%	pCi/L		05/04/23 15:16	
Total Radium Calculation	Total Radium	1.02 ± 0.791 (1.33)	pCi/L		05/12/23 15:41	
50342609003	**GAMW-17-041923**					
EPA 903.1	Radium-226	0.207 ± 0.316 (0.508) C:NA T:88%	pCi/L		05/11/23 13:43	
EPA 904.0	Radium-228	0.380 ± 0.395 (0.823) C:76% T:90%	pCi/L		05/04/23 15:16	
Total Radium Calculation	Total Radium	0.587 ± 0.711 (1.33)	pCi/L		05/12/23 15:41	
50342609004	**GAMW-18-041923**					
EPA 903.1	Radium-226	0.261 ± 0.363 (0.607) C:NA T:88%	pCi/L		05/11/23 13:43	
EPA 904.0	Radium-228	0.543 ± 0.412 (0.815) C:76% T:86%	pCi/L		05/04/23 15:16	
Total Radium Calculation	Total Radium	0.804 ± 0.775 (1.42)	pCi/L		05/12/23 15:41	
50342609005	**FD-01-041923**					
EPA 903.1	Radium-226	0.203 ± 0.352 (0.629) C:NA T:91%	pCi/L		05/11/23 13:43	

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50342609005	**FD-01-041923**					
EPA 904.0	Radium-228	1.21 ± 0.726 (1.35) C:78% T:73%	pCi/L		05/04/23 18:37	
Total Radium Calculation	Total Radium	1.41 ± 1.08 (1.98)	pCi/L		05/12/23 15:41	
50342609006	**FB-01-041923**					
EPA 903.1	Radium-226	0.0668 ± 0.507 (1.00) C:NA T:97%	pCi/L		05/11/23 13:43	
EPA 904.0	Radium-228	1.12 ± 0.577 (1.02) C:81% T:88%	pCi/L		05/04/23 18:37	
Total Radium Calculation	Total Radium	1.19 ± 1.08 (2.02)	pCi/L		05/12/23 15:41	
50342779001	**GAMW-17B-042023**					
EPA 903.1	Radium-226	0.563 ± 0.521 (0.758) C:NA T:85%	pCi/L		05/12/23 13:04	
EPA 904.0	Radium-228	0.849 ± 0.482 (0.903) C:77% T:87%	pCi/L		05/08/23 12:06	
Total Radium Calculation	Total Radium	1.41 ± 1.00 (1.66)	pCi/L		05/12/23 18:04	
50342779002	**GAMW-18B-042023**					
EPA 903.1	Radium-226	1.12 ± 0.666 (0.634) C:NA T:87%	pCi/L		05/12/23 13:04	
EPA 904.0	Radium-228	1.19 ± 0.460 (0.724) C:79% T:93%	pCi/L		05/08/23 12:06	
Total Radium Calculation	Total Radium	2.31 ± 1.13 (1.36)	pCi/L		05/12/23 18:04	
50342779003	**GAMW-60-042023**					
EPA 903.1	Radium-226	0.510 ± 0.709 (1.20) C:NA T:85%	pCi/L		05/12/23 13:04	

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50342779003	**GAMW-60-042023**					
EPA 904.0	Radium-228	0.959 ± 0.446 (0.765) C:79% T:87%	pCi/L		05/08/23 12:06	
Total Radium Calculation	Total Radium	1.47 ± 1.16 (1.97)	pCi/L		05/12/23 18:04	
50342779004	**GAMW-60B-042023**					
EPA 903.1	Radium-226	1.57 ± 0.852 (0.860) C:NA T:79%	pCi/L		05/12/23 13:04	
EPA 904.0	Radium-228	2.09 ± 0.641 (0.835) C:75% T:86%	pCi/L		05/08/23 12:06	
Total Radium Calculation	Total Radium	3.66 ± 1.49 (1.70)	pCi/L		05/12/23 18:04	
50342779005	**GAMW-16R-042023**					
EPA 903.1	Radium-226	0.176 ± 0.488 (0.947) C:NA T:88%	pCi/L		05/12/23 13:04	
EPA 904.0	Radium-228	0.752 ± 0.417 (0.766) C:75% T:92%	pCi/L		05/08/23 12:00	
Total Radium Calculation	Total Radium	0.928 ± 0.905 (1.71)	pCi/L		05/12/23 18:04	
50342779006	**FD-02-042023**					
EPA 903.1	Radium-226	0.416 ± 0.492 (0.773) C:NA T:93%	pCi/L		05/12/23 13:04	
EPA 904.0	Radium-228	0.564 ± 0.397 (0.773) C:74% T:88%	pCi/L		05/08/23 12:00	
Total Radium Calculation	Total Radium	0.980 ± 0.889 (1.55)	pCi/L		05/12/23 18:04	
50342779007	**FB-02-042023**					
EPA 903.1	Radium-226	0.152 ± 0.596 (1.14) C:NA T:94%	pCi/L		05/12/23 13:04	

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50342779007	**FB-02-042023**					
EPA 904.0	Radium-228	0.884 ± 0.496 (0.913) C:71% T:79%	pCi/L		05/08/23 12:00	
Total Radium Calculation	Total Radium	1.04 ± 1.09 (2.05)	pCi/L		05/12/23 18:04	
50342779008	**GAMW-17B-042023 MS**					
EPA 903.1	Radium-226	92.65 %REC ± NA (NA) C:NA T:NA	pCi/L		05/12/23 13:18	
EPA 904.0	Radium-228	71.60 %REC ± NA (NA) C:NA T:NA	pCi/L		05/08/23 15:24	
50342779009	**GAMW-17B-042023 MSD**					
EPA 903.1	Radium-226	104.42 %REC 11.95RPD ± NA (NA) C:NA T:NA	pCi/L		05/12/23 13:18	
EPA 904.0	Radium-228	97.99 %REC 31.12RPD ± NA (NA) C:NA T:NA	pCi/L		05/08/23 15:24	
50342910001	**GAMW-56-042123**					
EPA 903.1	Radium-226	0.178 ± 0.495 (0.960) C:NA T:95%	pCi/L		05/12/23 13:59	
EPA 904.0	Radium-228	0.467 ± 0.386 (0.776) C:82% T:87%	pCi/L		05/05/23 15:31	
Total Radium Calculation	Total Radium	0.645 ± 0.881 (1.74)	pCi/L		05/12/23 15:46	
50342910002	**GAMW-56B-042123**					
EPA 903.1	Radium-226	0.000 ± 0.558 (1.18) C:NA T:94%	pCi/L		05/12/23 13:59	
EPA 904.0	Radium-228	-0.00489 ± 0.382 (0.886) C:75% T:81%	pCi/L		05/05/23 15:31	

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50342910002	**GAMW-56B-042123**					
Total Radium Calculation	Total Radium	0.000 ± 0.940 (2.07)	pCi/L		05/12/23 15:46	
50342911003	**GAMW-16BR-042123**					
EPA 903.1	Radium-226	1.61 ± 0.944 (1.20) C:NA T:88%	pCi/L		05/09/23 13:23	
EPA 904.0	Radium-228	0.583 ± 0.378 (0.714) C:75% T:95%	pCi/L		05/05/23 14:52	
Total Radium Calculation	Total Radium	2.19 ± 1.32 (1.91)	pCi/L		05/15/23 16:39	
50342911001	**GAMW-08-042123**					
EPA 903.1	Radium-226	0.156 ± 0.530 (1.02) C:NA T:84%	pCi/L		05/09/23 13:23	
EPA 904.0	Radium-228	0.294 ± 0.312 (0.644) C:73% T:94%	pCi/L		05/05/23 14:52	
Total Radium Calculation	Total Radium	0.450 ± 0.842 (1.66)	pCi/L		05/15/23 16:39	
50342911002	**GAMW-08B-042123**					
EPA 903.1	Radium-226	0.453 ± 0.584 (0.972) C:NA T:99%	pCi/L		05/09/23 13:23	
EPA 904.0	Radium-228	0.549 ± 0.390 (0.753) C:76% T:86%	pCi/L		05/05/23 14:52	
Total Radium Calculation	Total Radium	1.00 ± 0.974 (1.73)	pCi/L		05/15/23 16:39	
50343023001	**GAMW-53-042423**					
EPA 903.1	Radium-226	-0.216 ± 0.424 (1.02) C:NA T:95%	pCi/L		05/09/23 15:38	
EPA 904.0	Radium-228	0.461 ± 0.392 (0.789) C:82% T:82%	pCi/L		05/08/23 15:20	

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50343023001	**GAMW-53-042423**					
Total Radium Calculation	Total Radium	0.461 ± 0.816 (1.81)	pCi/L		05/15/23 17:00	
50343023002	**GAMW-53B-042423**					
EPA 903.1	Radium-226	0.652 ± 0.794 (1.31) C:NA T:97%	pCi/L		05/09/23 15:38	
EPA 904.0	Radium-228	1.09 ± 0.500 (0.852) C:81% T:79%	pCi/L		05/08/23 15:20	
Total Radium Calculation	Total Radium	1.74 ± 1.29 (2.16)	pCi/L		05/15/23 17:00	
50343169001	**GAMW-52-042523**					
EPA 903.1	Radium-226	0.0620 ± 0.471 (0.930) C:NA T:96%	pCi/L		05/16/23 14:16	
EPA 904.0	Radium-228	0.279 ± 0.422 (0.911) C:71% T:85%	pCi/L		05/10/23 15:34	
Total Radium Calculation	Total Radium	0.341 ± 0.893 (1.84)	pCi/L		05/18/23 12:42	
50343169002	**GAMW-52B-042523**					
EPA 903.1	Radium-226	0.559 ± 0.392 (0.516) C:NA T:94%	pCi/L		05/16/23 14:31	
EPA 904.0	Radium-228	0.997 ± 0.509 (0.899) C:71% T:82%	pCi/L		05/10/23 15:34	
Total Radium Calculation	Total Radium	1.56 ± 0.901 (1.42)	pCi/L		05/18/23 12:42	
50343169003	**GAMW-52B-042523 MS**					
EPA 903.1	Radium-226	95.59 %REC ± NA (NA) C:NA T:NA	pCi/L		05/16/23 14:31	
EPA 904.0	Radium-228	93.39 %REC ± NA (NA) C:NA T:NA	pCi/L		05/10/23 15:34	

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50343169004	**GAMW-52B-042523 MSD**					
EPA 903.1	Radium-226	115.83 %REC 19.16RPD± NA (NA) C:NA T:NA	pCi/L		05/16/23 14:31	
EPA 904.0	Radium-228	75.33 %REC 21.40RPD ± NA (NA) C:NA T:NA	pCi/L		05/10/23 15:34	
50343169005	**FD-03-042523**					
EPA 903.1	Radium-226	-0.163 ± 0.441 (0.949) C:NA T:101%	pCi/L		05/16/23 14:31	
EPA 904.0	Radium-228	0.164 ± 0.368 (0.815) C:78% T:87%	pCi/L		05/10/23 15:34	
Total Radium Calculation	Total Radium	0.164 ± 0.809 (1.76)	pCi/L		05/18/23 12:42	
50343609001	**GAMW-68-050123**					
EPA 903.1	Radium-226	0.146 ± 0.394 (0.732) C:NA T:92%	pCi/L		05/23/23 16:01	
EPA 904.0	Radium-228	0.501 ± 0.380 (0.755) C:85% T:92%	pCi/L		05/16/23 11:29	
Total Radium Calculation	Total Radium	0.647 ± 0.774 (1.49)	pCi/L		05/25/23 07:43	
50343609002	**GAMW-68B-050123**					
EPA 903.1	Radium-226	0.439 ± 0.376 (0.510) C:NA T:85%	pCi/L		05/23/23 16:01	
EPA 904.0	Radium-228	0.627 ± 0.388 (0.731) C:85% T:85%	pCi/L		05/16/23 11:26	
Total Radium Calculation	Total Radium	1.07 ± 0.764 (1.24)	pCi/L		05/25/23 07:43	

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50343609003	**FB-04-050123**					
EPA 903.1	Radium-226	0.375 ± 0.484 (0.805) C:NA T:89%	pCi/L		05/23/23 16:01	
EPA 904.0	Radium-228	0.374 ± 0.298 (0.587) C:85% T:89%	pCi/L		05/16/23 11:26	
Total Radium Calculation	Total Radium	0.749 ± 0.782 (1.39)	pCi/L		05/25/23 07:43	
50343609004	**FD-04-050123**					
EPA 903.1	Radium-226	0.358 ± 0.306 (0.415) C:NA T:90%	pCi/L		05/23/23 16:01	
EPA 904.0	Radium-228	0.776 ± 0.366 (0.606) C:82% T:90%	pCi/L		05/16/23 11:27	
Total Radium Calculation	Total Radium	1.13 ± 0.672 (1.02)	pCi/L		05/25/23 07:43	
50343265001	**GAMW-54-042623**					
EPA 903.1	Radium-226	0.0562 ± 0.454 (0.892) C:NA T:92%	pCi/L		05/18/23 12:24	
EPA 904.0	Radium-228	0.655 ± 0.300 (0.469) C:84% T:86%	pCi/L		05/11/23 12:59	
Total Radium Calculation	Total Radium	0.711 ± 0.754 (1.36)	pCi/L		05/19/23 15:30	
50343265002	**GAMW-54B-042623**					
EPA 903.1	Radium-226	0.415 ± 0.535 (0.890) C:NA T:88%	pCi/L		05/18/23 12:24	
EPA 904.0	Radium-228	1.03 ± 0.387 (0.552) C:82% T:85%	pCi/L		05/11/23 12:59	
Total Radium Calculation	Total Radium	1.45 ± 0.922 (1.44)	pCi/L		05/19/23 15:30	

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(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343265003	**GAMW-55R-042623**					
EPA 903.1	Radium-226	0.000 ± 0.502 (1.00) C:NA T:87%	pCi/L		05/18/23 12:24	
EPA 904.0	Radium-228	0.623 ± 0.332 (0.587) C:83% T:89%	pCi/L		05/11/23 12:59	
Total Radium Calculation	Total Radium	0.623 ± 0.834 (1.59)	pCi/L		05/19/23 15:30	
50343266001	**GAMW-55B-042623**					
EPA 903.1	Radium-226	1.23 ± 0.720 (0.827) C:NA T:75%	pCi/L		05/17/23 16:14	
EPA 904.0	Radium-228	0.975 ± 0.401 (0.591) C:78% T:79%	pCi/L		05/12/23 15:31	
Total Radium Calculation	Total Radium	2.21 ± 1.12 (1.42)	pCi/L		05/19/23 14:52	
50343266002	**FB-03-042623**					
EPA 903.1	Radium-226	0.307 ± 0.362 (0.569) C:NA T:95%	pCi/L		05/17/23 16:14	
EPA 904.0	Radium-228	0.137 ± 0.248 (0.543) C:81% T:86%	pCi/L		05/12/23 15:31	
Total Radium Calculation	Total Radium	0.444 ± 0.610 (1.11)	pCi/L		05/19/23 14:52	

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: NiSource_WSP Golder
Date: June 19, 2023

General Information:
52 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:

Analyte Comments:

QC Batch: 581968

1d: Matrix spike recovery fails low and outside of default acceptance criteria for MS recovery. Results reported based on acceptable RPD for the RQS set.

- GAMW-01B-041323 MS (Lab ID: 50342143003)
  - Radium-226

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: NiSource_WSP Golder
Date: June 19, 2023

General Information:
52 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:

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: NiSource_WSP Golder
Date: June 19, 2023

General Information:
46 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: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-14-041223 **Lab ID: 50341961001** Collected: 04/12/23 13:40 Received: 04/13/23 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	**-0.219 ± 0.380 (0.957) C:NA T:97%**	pCi/L	04/27/23 15:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.135 ± 0.408 (0.914) C:72% T:87%**	pCi/L	04/25/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.135 ± 0.788 (1.87)**	pCi/L	04/27/23 17:48	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-14B-041223 **Lab ID: 50341961002** Collected: 04/12/23 13:25 Received: 04/13/23 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	**1.25 ± 0.685 (0.790) C:NA T:91%**	pCi/L	04/27/23 15:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.52 ± 0.582 (0.917) C:73% T:86%**	pCi/L	04/25/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.77 ± 1.27 (1.71)**	pCi/L	04/27/23 17:48	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-01-041323 **Lab ID: 50342143001** Collected: 04/13/23 11:35 Received: 04/14/23 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	**0.400 ± 0.369 (0.538) C:NA T:83%**	pCi/L	05/04/23 15:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.218 ± 0.368 (0.802) C:80% T:83%**	pCi/L	04/26/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.618 ± 0.737 (1.34)**	pCi/L	05/05/23 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-01B-041323 **Lab ID: 50342143002** Collected: 04/13/23 12:50 Received: 04/14/23 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	**1.08 ± 0.530 (0.609) C:NA T:87%**	pCi/L	05/04/23 15:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.11 ± 0.429 (0.643) C:83% T:87%**	pCi/L	04/26/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.19 ± 0.959 (1.25)**	pCi/L	05/05/23 10:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-01B-041323 MS **Lab ID: 50342143003** Collected: 04/13/23 12:50 Received: 04/14/23 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	**67.24 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/04/23 15:54	13982-63-3	1d
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**66.09 %REC ± NA (NA) C:NA T:NA**	pCi/L	04/26/23 14:58	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-01B-041323 MSD **Lab ID: 50342143004** Collected: 04/13/23 12:50 Received: 04/14/23 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	**78.17 %REC 15.03RPD ± NA (NA) C:NA T:NA**	pCi/L	05/04/23 16:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**65.17 %REC 1.39RPD ± NA (NA) C:NA T:NA**	pCi/L	04/26/23 14:58	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-03-041423 **Lab ID: 50342291001** Collected: 04/14/23 13:05 Received: 04/17/23 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.122 ± 0.379 (0.734) C:NA T:85%**	pCi/L	05/01/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.443 ± 0.399 (0.808) C:77% T:83%**	pCi/L	04/27/23 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.565 ± 0.778 (1.54)**	pCi/L	05/03/23 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-03B-041423 **Lab ID: 50342291002** Collected: 04/14/23 14:30 Received: 04/17/23 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.175 ± 0.442 (0.821) C:NA T:87%**	pCi/L	05/01/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.227 ± 0.351 (0.758) C:78% T:85%**	pCi/L	04/27/23 15:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.402 ± 0.793 (1.58)**	pCi/L	05/03/23 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-12-041423 **Lab ID: 50342291003** Collected: 04/14/23 12:00 Received: 04/17/23 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.761 ± 0.796 (1.25) C:NA T:88%**	pCi/L	05/05/23 12:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.380 ± 0.365 (0.745) C:80% T:84%**	pCi/L	04/27/23 15:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.14 ± 1.16 (2.00)**	pCi/L	05/05/23 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-12B-041423 **Lab ID: 50342291004** Collected: 04/14/23 14:30 Received: 04/17/23 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.266 ± 0.452 (0.798) C:NA T:94%**	pCi/L	05/01/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.528 ± 0.407 (0.789) C:74% T:81%**	pCi/L	04/27/23 15:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.794 ± 0.859 (1.59)**	pCi/L	05/03/23 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-13-041423 **Lab ID: 50342291005** Collected: 04/14/23 09:45 Received: 04/17/23 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.203 ± 0.479 (0.887) C:NA T:84%**	pCi/L	05/01/23 16:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.286 ± 0.375 (0.799) C:76% T:83%**	pCi/L	04/27/23 15:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.489 ± 0.854 (1.69)**	pCi/L	05/03/23 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-13B-041423 **Lab ID: 50342291006** Collected: 04/14/23 11:50 Received: 04/17/23 08:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.194 ± 0.492 (0.913) C:NA T:89%**	pCi/L	05/01/23 16:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.448 ± 0.374 (0.743) C:77% T:85%**	pCi/L	04/27/23 15:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.642 ± 0.866 (1.66)**	pCi/L	05/03/23 12:51	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-51-041523 **Lab ID: 50342385001** Collected: 04/15/23 15:45 Received: 04/18/23 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	**0.289 ± 0.469 (0.816) C:NA T:94%**	pCi/L	05/03/23 14:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.442 ± 0.401 (0.814) C:76% T:83%**	pCi/L	05/01/23 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.731 ± 0.870 (1.63)**	pCi/L	05/05/23 10:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-51B-041523 **Lab ID: 50342385002** Collected: 04/15/23 16:50 Received: 04/18/23 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	**1.53 ± 0.698 (0.709) C:NA T:90%**	pCi/L	05/03/23 14:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.42 ± 0.496 (0.656) C:79% T:82%**	pCi/L	05/01/23 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.95 ± 1.19 (1.37)**	pCi/L	05/05/23 10:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-59-041523 **Lab ID: 50342385003** Collected: 04/15/23 18:10 Received: 04/18/23 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	**-0.0547 ± 0.355 (0.771) C:NA T:98%**	pCi/L	05/03/23 14:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.609 ± 0.371 (0.680) C:81% T:86%**	pCi/L	05/01/23 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.609 ± 0.726 (1.45)**	pCi/L	05/05/23 10:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-59B-041523 **Lab ID: 50342385004** Collected: 04/15/23 19:05 Received: 04/18/23 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	**0.545 ± 0.588 (0.949) C:NA T:94%**	pCi/L	05/03/23 14:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.25 ± 0.497 (0.767) C:80% T:82%**	pCi/L	05/01/23 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.80 ± 1.09 (1.72)**	pCi/L	05/05/23 10:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-09-041923 **Lab ID: 50342609001** Collected: 04/19/23 10:20 Received: 04/20/23 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	**0.724 ± 0.568 (0.790) C:NA T:93%**	pCi/L	05/11/23 13:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.350 ± 0.419 (0.885) C:78% T:76%**	pCi/L	05/04/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07 ± 0.987 (1.68)**	pCi/L	05/12/23 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-09B-041923 **Lab ID: 50342609002** Collected: 04/19/23 12:05 Received: 04/20/23 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	**0.363 ± 0.338 (0.445) C:NA T:94%**	pCi/L	05/11/23 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.655 ± 0.453 (0.888) C:79% T:86%**	pCi/L	05/04/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.02 ± 0.791 (1.33)**	pCi/L	05/12/23 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-17-041923 **Lab ID: 50342609003** Collected: 04/19/23 13:40 Received: 04/20/23 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	**0.207 ± 0.316 (0.508) C:NA T:88%**	pCi/L	05/11/23 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.380 ± 0.395 (0.823) C:76% T:90%**	pCi/L	05/04/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.587 ± 0.711 (1.33)**	pCi/L	05/12/23 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-18-041923 **Lab ID: 50342609004** Collected: 04/19/23 13:40 Received: 04/20/23 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	**0.261 ± 0.363 (0.607) C:NA T:88%**	pCi/L	05/11/23 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.543 ± 0.412 (0.815) C:76% T:86%**	pCi/L	05/04/23 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.804 ± 0.775 (1.42)**	pCi/L	05/12/23 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: FD-01-041923 **Lab ID: 50342609005** Collected: 04/19/23 12:00 Received: 04/20/23 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	**0.203 ± 0.352 (0.629) C:NA T:91%**	pCi/L	05/11/23 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.21 ± 0.726 (1.35) C:78% T:73%**	pCi/L	05/04/23 18:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 1.08 (1.98)**	pCi/L	05/12/23 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: FB-01-041923 **Lab ID: 50342609006** Collected: 04/19/23 13:45 Received: 04/20/23 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	**0.0668 ± 0.507 (1.00) C:NA T:97%**	pCi/L	05/11/23 13:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.12 ± 0.577 (1.02) C:81% T:88%**	pCi/L	05/04/23 18:37	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 1.08 (2.02)**	pCi/L	05/12/23 15:41	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-17B-042023 **Lab ID: 50342779001** Collected: 04/20/23 10:25 Received: 04/21/23 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	**0.563 ± 0.521 (0.758) C:NA T:85%**	pCi/L	05/12/23 13:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.849 ± 0.482 (0.903) C:77% T:87%**	pCi/L	05/08/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 1.00 (1.66)**	pCi/L	05/12/23 18:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-18B-042023 **Lab ID: 50342779002** Collected: 04/20/23 10:05 Received: 04/21/23 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	**1.12 ± 0.666 (0.634) C:NA T:87%**	pCi/L	05/12/23 13:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.19 ± 0.460 (0.724) C:79% T:93%**	pCi/L	05/08/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.31 ± 1.13 (1.36)**	pCi/L	05/12/23 18:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-60-042023 **Lab ID: 50342779003** Collected: 04/20/23 11:15 Received: 04/21/23 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	**0.510 ± 0.709 (1.20) C:NA T:85%**	pCi/L	05/12/23 13:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.959 ± 0.446 (0.765) C:79% T:87%**	pCi/L	05/08/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.47 ± 1.16 (1.97)**	pCi/L	05/12/23 18:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-60B-042023 **Lab ID: 50342779004** Collected: 04/20/23 12:25 Received: 04/21/23 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	**1.57 ± 0.852 (0.860) C:NA T:79%**	pCi/L	05/12/23 13:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.09 ± 0.641 (0.835) C:75% T:86%**	pCi/L	05/08/23 12:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.66 ± 1.49 (1.70)**	pCi/L	05/12/23 18:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-16R-042023 **Lab ID: 50342779005** Collected: 04/20/23 13:55 Received: 04/21/23 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	**0.176 ± 0.488 (0.947) C:NA T:88%**	pCi/L	05/12/23 13:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.752 ± 0.417 (0.766) C:75% T:92%**	pCi/L	05/08/23 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.928 ± 0.905 (1.71)**	pCi/L	05/12/23 18:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: FD-02-042023 **Lab ID: 50342779006** Collected: 04/20/23 12:00 Received: 04/21/23 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	**0.416 ± 0.492 (0.773) C:NA T:93%**	pCi/L	05/12/23 13:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.564 ± 0.397 (0.773) C:74% T:88%**	pCi/L	05/08/23 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.980 ± 0.889 (1.55)**	pCi/L	05/12/23 18:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: FB-02-042023 **Lab ID: 50342779007** Collected: 04/20/23 12:30 Received: 04/21/23 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	**0.152 ± 0.596 (1.14) C:NA T:94%**	pCi/L	05/12/23 13:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.884 ± 0.496 (0.913) C:71% T:79%**	pCi/L	05/08/23 12:00	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.04 ± 1.09 (2.05)**	pCi/L	05/12/23 18:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-17B-042023 MS **Lab ID: 50342779008** Collected: 04/20/23 10:25 Received: 04/21/23 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	**92.65 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/12/23 13:18	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**71.60 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/08/23 15:24	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-17B-042023 MSD **Lab ID: 50342779009** Collected: 04/20/23 10:25 Received: 04/21/23 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	**104.42 %REC 11.95RPD ± NA (NA) C:NA T:NA**	pCi/L	05/12/23 13:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**97.99 %REC 31.12RPD ± NA (NA) C:NA T:NA**	pCi/L	05/08/23 15:24	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-56-042123 **Lab ID: 50342910001** Collected: 04/21/23 10:55 Received: 04/22/23 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	**0.178 ± 0.495 (0.960) C:NA T:95%**	pCi/L	05/12/23 13:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.467 ± 0.386 (0.776) C:82% T:87%**	pCi/L	05/05/23 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.645 ± 0.881 (1.74)**	pCi/L	05/12/23 15:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-56B-042123 **Lab ID: 50342910002** Collected: 04/21/23 13:30 Received: 04/22/23 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	**0.000 ± 0.558 (1.18) C:NA T:94%**	pCi/L	05/12/23 13:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.00489 ± 0.382 (0.886) C:75% T:81%**	pCi/L	05/05/23 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000 ± 0.940 (2.07)**	pCi/L	05/12/23 15:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-16BR-042123 **Lab ID: 50342911003** Collected: 04/21/23 09:40 Received: 04/22/23 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	**1.61 ± 0.944 (1.20) C:NA T:88%**	pCi/L	05/09/23 13:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.583 ± 0.378 (0.714) C:75% T:95%**	pCi/L	05/05/23 14:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.19 ± 1.32 (1.91)**	pCi/L	05/15/23 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-08-042123 **Lab ID: 50342911001** Collected: 04/21/23 09:55 Received: 04/22/23 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	**0.156 ± 0.530 (1.02) C:NA T:84%**	pCi/L	05/09/23 13:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.294 ± 0.312 (0.644) C:73% T:94%**	pCi/L	05/05/23 14:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.450 ± 0.842 (1.66)**	pCi/L	05/15/23 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-08B-042123 **Lab ID: 50342911002** Collected: 04/21/23 10:50 Received: 04/22/23 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	**0.453 ± 0.584 (0.972) C:NA T:99%**	pCi/L	05/09/23 13:23	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.549 ± 0.390 (0.753) C:76% T:86%**	pCi/L	05/05/23 14:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.00 ± 0.974 (1.73)**	pCi/L	05/15/23 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-53-042423 **Lab ID: 50343023001** Collected: 04/24/23 11:05 Received: 04/25/23 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	**-0.216 ± 0.424 (1.02) C:NA T:95%**	pCi/L	05/09/23 15:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.461 ± 0.392 (0.789) C:82% T:82%**	pCi/L	05/08/23 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.461 ± 0.816 (1.81)**	pCi/L	05/15/23 17:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-53B-042423 **Lab ID: 50343023002** Collected: 04/24/23 12:50 Received: 04/25/23 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	**0.652 ± 0.794 (1.31) C:NA T:97%**	pCi/L	05/09/23 15:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.09 ± 0.500 (0.852) C:81% T:79%**	pCi/L	05/08/23 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.74 ± 1.29 (2.16)**	pCi/L	05/15/23 17:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-52-042523 **Lab ID: 50343169001** Collected: 04/25/23 09:25 Received: 04/26/23 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	**0.0620 ± 0.471 (0.930) C:NA T:96%**	pCi/L	05/16/23 14:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.279 ± 0.422 (0.911) C:71% T:85%**	pCi/L	05/10/23 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.341 ± 0.893 (1.84)**	pCi/L	05/18/23 12:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-52B-042523 **Lab ID: 50343169002** Collected: 04/25/23 11:10 Received: 04/26/23 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	**0.559 ± 0.392 (0.516) C:NA T:94%**	pCi/L	05/16/23 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.997 ± 0.509 (0.899) C:71% T:82%**	pCi/L	05/10/23 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.56 ± 0.901 (1.42)**	pCi/L	05/18/23 12:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-52B-042523 MS **Lab ID: 50343169003** Collected: 04/25/23 11:10 Received: 04/26/23 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	**95.59 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/16/23 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**93.39 %REC ± NA (NA) C:NA T:NA**	pCi/L	05/10/23 15:34	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-52B-042523 MSD **Lab ID: 50343169004** Collected: 04/25/23 11:10 Received: 04/26/23 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	**115.83 %REC 19.16RPD± NA (NA) C:NA T:NA**	pCi/L	05/16/23 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**75.33 %REC 21.40RPD ± NA (NA) C:NA T:NA**	pCi/L	05/10/23 15:34	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: FD-03-042523 **Lab ID: 50343169005** Collected: 04/25/23 12:00 Received: 04/26/23 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	**-0.163 ± 0.441 (0.949) C:NA T:101%**	pCi/L	05/16/23 14:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.164 ± 0.368 (0.815) C:78% T:87%**	pCi/L	05/10/23 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.164 ± 0.809 (1.76)**	pCi/L	05/18/23 12:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-68-050123 **Lab ID: 50343609001** Collected: 05/01/23 12:25 Received: 05/02/23 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	**0.146 ± 0.394 (0.732) C:NA T:92%**	pCi/L	05/23/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.501 ± 0.380 (0.755) C:85% T:92%**	pCi/L	05/16/23 11:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.647 ± 0.774 (1.49)**	pCi/L	05/25/23 07:43	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-68B-050123 **Lab ID: 50343609002** Collected: 05/01/23 14:40 Received: 05/02/23 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	**0.439 ± 0.376 (0.510) C:NA T:85%**	pCi/L	05/23/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.627 ± 0.388 (0.731) C:85% T:85%**	pCi/L	05/16/23 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07 ± 0.764 (1.24)**	pCi/L	05/25/23 07:43	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: FB-04-050123 **Lab ID: 50343609003** Collected: 05/01/23 14:45 Received: 05/02/23 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	**0.375 ± 0.484 (0.805) C:NA T:89%**	pCi/L	05/23/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.374 ± 0.298 (0.587) C:85% T:89%**	pCi/L	05/16/23 11:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.749 ± 0.782 (1.39)**	pCi/L	05/25/23 07:43	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: FD-04-050123 **Lab ID: 50343609004** Collected: 05/01/23 12:00 Received: 05/02/23 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	**0.358 ± 0.306 (0.415) C:NA T:90%**	pCi/L	05/23/23 16:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.776 ± 0.366 (0.606) C:82% T:90%**	pCi/L	05/16/23 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.13 ± 0.672 (1.02)**	pCi/L	05/25/23 07:43	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-54-042623 **Lab ID: 50343265001** Collected: 04/26/23 10:05 Received: 04/27/23 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	**0.0562 ± 0.454 (0.892) C:NA T:92%**	pCi/L	05/18/23 12:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.655 ± 0.300 (0.469) C:84% T:86%**	pCi/L	05/11/23 12:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.711 ± 0.754 (1.36)**	pCi/L	05/19/23 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-54B-042623 **Lab ID: 50343265002** Collected: 04/26/23 11:20 Received: 04/27/23 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	**0.415 ± 0.535 (0.890) C:NA T:88%**	pCi/L	05/18/23 12:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.03 ± 0.387 (0.552) C:82% T:85%**	pCi/L	05/11/23 12:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.45 ± 0.922 (1.44)**	pCi/L	05/19/23 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-55R-042623 **Lab ID: 50343265003** Collected: 04/26/23 12:35 Received: 04/27/23 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	**0.000 ± 0.502 (1.00) C:NA T:87%**	pCi/L	05/18/23 12:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.623 ± 0.332 (0.587) C:83% T:89%**	pCi/L	05/11/23 12:59	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.623 ± 0.834 (1.59)**	pCi/L	05/19/23 15:30	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: GAMW-55B-042623 **Lab ID: 50343266001** Collected: 04/26/23 13:55 Received: 04/27/23 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	**1.23 ± 0.720 (0.827) C:NA T:75%**	pCi/L	05/17/23 16:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.975 ± 0.401 (0.591) C:78% T:79%**	pCi/L	05/12/23 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.21 ± 1.12 (1.42)**	pCi/L	05/19/23 14:52	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Sample: FB-03-042623 **Lab ID: 50343266002** Collected: 04/26/23 11:30 Received: 04/27/23 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	**0.307 ± 0.362 (0.569) C:NA T:95%**	pCi/L	05/17/23 16:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.137 ± 0.248 (0.543) C:81% T:86%**	pCi/L	05/12/23 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.444 ± 0.610 (1.11)**	pCi/L	05/19/23 14:52	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585904
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343609001, 50343609002, 50343609003, 50343609004

METHOD BLANK: 2845862 Matrix: Water
Associated Lab Samples: 50343609001, 50343609002, 50343609003, 50343609004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.914 ± 0.407 (0.635) C:83% T:72%	pCi/L	05/16/23 11:17	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 582468
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342385001, 50342385002, 50342385003, 50342385004

METHOD BLANK: 2828839 Matrix: Water
Associated Lab Samples: 50342385001, 50342385002, 50342385003, 50342385004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.264 ± 0.245 (0.323) C:NA T:97%	pCi/L	05/03/23 13:51	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 581398
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50341961001, 50341961002

METHOD BLANK: 2823677 Matrix: Water
Associated Lab Samples: 50341961001, 50341961002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.700 ± 0.413 (0.739) C:68% T:82%	pCi/L	04/25/23 15:08	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 581396
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50341961001, 50341961002

METHOD BLANK: 2823675 Matrix: Water
Associated Lab Samples: 50341961001, 50341961002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0451 ± 0.206 (0.122) C:NA T:103%	pCi/L	04/27/23 15:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585492
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343266001, 50343266002

METHOD BLANK: 2843596 Matrix: Water
Associated Lab Samples: 50343266001, 50343266002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.522 ± 0.338 (0.632) C:83% T:79%	pCi/L	05/12/23 12:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585057 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: 50343169001, 50343169002, 50343169003, 50343169004, 50343169005

METHOD BLANK: 2841341 Matrix: Water
Associated Lab Samples: 50343169001, 50343169002, 50343169003, 50343169004, 50343169005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0927 ± 0.223 (0.430) C:NA T:90%	pCi/L	05/16/23 14:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 583716 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: 50342779001, 50342779002, 50342779003, 50342779004, 50342779005, 50342779006, 50342779007, 50342779008, 50342779009

METHOD BLANK: 2834710 Matrix: Water
Associated Lab Samples: 50342779001, 50342779002, 50342779003, 50342779004, 50342779005, 50342779006, 50342779007, 50342779008, 50342779009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.500 ± 0.392 (0.460) C:NA T:93%	pCi/L	05/12/23 13:04	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585733
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343265001, 50343265002, 50343265003

METHOD BLANK: 2845067
Matrix: Water
Associated Lab Samples: 50343265001, 50343265002, 50343265003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.401 ± 0.294 (0.568) C:78% T:90%	pCi/L	05/11/23 12:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585052
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343023001, 50343023002

METHOD BLANK: 2841322 Matrix: Water
Associated Lab Samples: 50343023001, 50343023002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.218 ± 0.250 (0.148) C:NA T:93%	pCi/L	05/09/23 15:38	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 581970
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342143001, 50342143002, 50342143003, 50342143004

METHOD BLANK: 2826543 Matrix: Water
Associated Lab Samples: 50342143001, 50342143002, 50342143003, 50342143004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.480 ± 0.326 (0.605) C:76% T:83%	pCi/L	04/26/23 14:49	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 581968
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342143001, 50342143002, 50342143003, 50342143004

METHOD BLANK: 2826534 Matrix: Water
Associated Lab Samples: 50342143001, 50342143002, 50342143003, 50342143004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.211 (0.428) C:NA T:83%	pCi/L	05/04/23 15:42	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585053
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343023001, 50343023002

METHOD BLANK: 2841323 Matrix: Water
Associated Lab Samples: 50343023001, 50343023002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.571 ± 0.354 (0.657) C:83% T:88%	pCi/L	05/08/23 15:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 584735
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342911001, 50342911002, 50342911003

METHOD BLANK: 2839648 Matrix: Water
Associated Lab Samples: 50342911001, 50342911002, 50342911003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0773 ± 0.284 (0.645) C:73% T:97%	pCi/L	05/05/23 14:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 583717 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: 50342779001, 50342779002, 50342779003, 50342779004, 50342779005, 50342779006, 50342779007, 50342779008, 50342779009

METHOD BLANK: 2834711 Matrix: Water
Associated Lab Samples: 50342779001, 50342779002, 50342779003, 50342779004, 50342779005, 50342779006, 50342779007, 50342779008, 50342779009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.284 ± 0.346 (0.733) C:75% T:91%	pCi/L	05/08/23 12:00	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 581976
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342291001, 50342291002, 50342291003, 50342291004, 50342291005, 50342291006

METHOD BLANK: 2826556 Matrix: Water
Associated Lab Samples: 50342291001, 50342291002, 50342291003, 50342291004, 50342291005, 50342291006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.147 ± 0.311 (0.689) C:74% T:87%	pCi/L	04/27/23 15:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 581975 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: 50342291001, 50342291002, 50342291003, 50342291004, 50342291005, 50342291006

METHOD BLANK: 2826555 Matrix: Water
Associated Lab Samples: 50342291001, 50342291002, 50342291003, 50342291004, 50342291005, 50342291006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.534 ± 0.322 (0.132) C:NA T:92%	pCi/L	05/01/23 15:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585902
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343609001, 50343609002, 50343609003, 50343609004

METHOD BLANK: 2845856 Matrix: Water
Associated Lab Samples: 50343609001, 50343609002, 50343609003, 50343609004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.175 ± 0.267 (0.429) C:NA T:72%	pCi/L	05/23/23 15:45	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585490
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343266001, 50343266002

METHOD BLANK: 2843591
Matrix: Water
Associated Lab Samples: 50343266001, 50343266002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0521 ± 0.238 (0.484) C:NA T:93%	pCi/L	05/17/23 15:39	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585067
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343169001, 50343169002, 50343169003, 50343169004, 50343169005

METHOD BLANK: 2841383 Matrix: Water
Associated Lab Samples: 50343169001, 50343169002, 50343169003, 50343169004, 50343169005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.410 ± 0.355 (0.711) C:78% T:80%	pCi/L	05/10/23 15:35	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 583718
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342910001, 50342910002

METHOD BLANK: 2834715 Matrix: Water
Associated Lab Samples: 50342910001, 50342910002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.298 ± 0.274 (0.161) C:NA T:98%	pCi/L	05/12/23 13:47	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 583215 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: 50342609001, 50342609002, 50342609003, 50342609004, 50342609005, 50342609006

METHOD BLANK: 2832312 Matrix: Water
Associated Lab Samples: 50342609001, 50342609002, 50342609003, 50342609004, 50342609005, 50342609006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.187 ± 0.260 (0.434) C:NA T:96%	pCi/L	05/11/23 13:16	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 585731
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343265001, 50343265002, 50343265003

METHOD BLANK: 2845061
Matrix: Water
Associated Lab Samples: 50343265001, 50343265002, 50343265003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.152 ± 0.263 (0.469) C:NA T:86%	pCi/L	05/18/23 12:24	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 584734
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342911001, 50342911002, 50342911003

METHOD BLANK: 2839644 Matrix: Water
Associated Lab Samples: 50342911001, 50342911002, 50342911003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.156 ± 0.306 (0.560) C:NA T:103%	pCi/L	05/09/23 12:53	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 583719
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342910001, 50342910002

METHOD BLANK: 2834717 Matrix: Water
Associated Lab Samples: 50342910001, 50342910002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.484 ± 0.333 (0.642) C:86% T:87%	pCi/L	05/05/23 12:20	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 583216 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: 50342609001, 50342609002, 50342609003, 50342609004, 50342609005, 50342609006

METHOD BLANK: 2832314 Matrix: Water
Associated Lab Samples: 50342609001, 50342609002, 50342609003, 50342609004, 50342609005, 50342609006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.209 ± 0.350 (0.761) C:70% T:91%	pCi/L	05/04/23 11:50	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

QC Batch: 582471
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50342385001, 50342385002, 50342385003, 50342385004

METHOD BLANK: 2828843 Matrix: Water
Associated Lab Samples: 50342385001, 50342385002, 50342385003, 50342385004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.257 ± 0.289 (0.602) C:85% T:89%	pCi/L	05/01/23 15:03	

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QUALIFIERS

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

1d	Matrix spike recovery fails low and outside of default acceptance criteria for MS recovery. Results reported based on acceptable RPD for the RQS set.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50341961001	**GAMW-14-041223**	EPA 903.1	581396		
50341961002	**GAMW-14B-041223**	EPA 903.1	581396		
50342143001	**GAMW-01-041323**	EPA 903.1	581968		
50342143002	**GAMW-01B-041323**	EPA 903.1	581968		
50342143003	**GAMW-01B-041323 MS**	EPA 903.1	581968		
50342143004	**GAMW-01B-041323 MSD**	EPA 903.1	581968		
50342291001	**GAMW-03-041423**	EPA 903.1	581975		
50342291002	**GAMW-03B-041423**	EPA 903.1	581975		
50342291003	**GAMW-12-041423**	EPA 903.1	581975		
50342291004	**GAMW-12B-041423**	EPA 903.1	581975		
50342291005	**GAMW-13-041423**	EPA 903.1	581975		
50342291006	**GAMW-13B-041423**	EPA 903.1	581975		
50342385001	**GAMW-51-041523**	EPA 903.1	582468		
50342385002	**GAMW-51B-041523**	EPA 903.1	582468		
50342385003	**GAMW-59-041523**	EPA 903.1	582468		
50342385004	**GAMW-59B-041523**	EPA 903.1	582468		
50342609001	**GAMW-09-041923**	EPA 903.1	583215		
50342609002	**GAMW-09B-041923**	EPA 903.1	583215		
50342609003	**GAMW-17-041923**	EPA 903.1	583215		
50342609004	**GAMW-18-041923**	EPA 903.1	583215		
50342609005	**FD-01-041923**	EPA 903.1	583215		
50342609006	**FB-01-041923**	EPA 903.1	583215		
50342779001	**GAMW-17B-042023**	EPA 903.1	583716		
50342779002	**GAMW-18B-042023**	EPA 903.1	583716		
50342779003	**GAMW-60-042023**	EPA 903.1	583716		
50342779004	**GAMW-60B-042023**	EPA 903.1	583716		
50342779005	**GAMW-16R-042023**	EPA 903.1	583716		
50342779006	**FD-02-042023**	EPA 903.1	583716		
50342779007	**FB-02-042023**	EPA 903.1	583716		
50342779008	**GAMW-17B-042023 MS**	EPA 903.1	583716		
50342779009	**GAMW-17B-042023 MSD**	EPA 903.1	583716		
50342910001	**GAMW-56-042123**	EPA 903.1	583718		
50342910002	**GAMW-56B-042123**	EPA 903.1	583718		
50342911001	**GAMW-08-042123**	EPA 903.1	584734		
50342911002	**GAMW-08B-042123**	EPA 903.1	584734		
50342911003	**GAMW-16BR-042123**	EPA 903.1	584734		
50343023001	**GAMW-53-042423**	EPA 903.1	585052		
50343023002	**GAMW-53B-042423**	EPA 903.1	585052		
50343169001	**GAMW-52-042523**	EPA 903.1	585057		
50343169002	**GAMW-52B-042523**	EPA 903.1	585057		
50343169003	**GAMW-52B-042523 MS**	EPA 903.1	585057		
50343169004	**GAMW-52B-042523 MSD**	EPA 903.1	585057		
50343169005	**FD-03-042523**	EPA 903.1	585057		
50343265001	**GAMW-54-042623**	EPA 903.1	585731		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343265002	**GAMW-54B-042623**	EPA 903.1	585731		
50343265003	**GAMW-55R-042623**	EPA 903.1	585731		
50343266001	**GAMW-55B-042623**	EPA 903.1	585490		
50343266002	**FB-03-042623**	EPA 903.1	585490		
50343609001	**GAMW-68-050123**	EPA 903.1	585902		
50343609002	**GAMW-68B-050123**	EPA 903.1	585902		
50343609003	**FB-04-050123**	EPA 903.1	585902		
50343609004	**FD-04-050123**	EPA 903.1	585902		
50341961001	**GAMW-14-041223**	EPA 904.0	581398		
50341961002	**GAMW-14B-041223**	EPA 904.0	581398		
50342143001	**GAMW-01-041323**	EPA 904.0	581970		
50342143002	**GAMW-01B-041323**	EPA 904.0	581970		
50342143003	**GAMW-01B-041323 MS**	EPA 904.0	581970		
50342143004	**GAMW-01B-041323 MSD**	EPA 904.0	581970		
50342291001	**GAMW-03-041423**	EPA 904.0	581976		
50342291002	**GAMW-03B-041423**	EPA 904.0	581976		
50342291003	**GAMW-12-041423**	EPA 904.0	581976		
50342291004	**GAMW-12B-041423**	EPA 904.0	581976		
50342291005	**GAMW-13-041423**	EPA 904.0	581976		
50342291006	**GAMW-13B-041423**	EPA 904.0	581976		
50342385001	**GAMW-51-041523**	EPA 904.0	582471		
50342385002	**GAMW-51B-041523**	EPA 904.0	582471		
50342385003	**GAMW-59-041523**	EPA 904.0	582471		
50342385004	**GAMW-59B-041523**	EPA 904.0	582471		
50342609001	**GAMW-09-041923**	EPA 904.0	583216		
50342609002	**GAMW-09B-041923**	EPA 904.0	583216		
50342609003	**GAMW-17-041923**	EPA 904.0	583216		
50342609004	**GAMW-18-041923**	EPA 904.0	583216		
50342609005	**FD-01-041923**	EPA 904.0	583216		
50342609006	**FB-01-041923**	EPA 904.0	583216		
50342779001	**GAMW-17B-042023**	EPA 904.0	583717		
50342779002	**GAMW-18B-042023**	EPA 904.0	583717		
50342779003	**GAMW-60-042023**	EPA 904.0	583717		
50342779004	**GAMW-60B-042023**	EPA 904.0	583717		
50342779005	**GAMW-16R-042023**	EPA 904.0	583717		
50342779006	**FD-02-042023**	EPA 904.0	583717		
50342779007	**FB-02-042023**	EPA 904.0	583717		
50342779008	**GAMW-17B-042023 MS**	EPA 904.0	583717		
50342779009	**GAMW-17B-042023 MSD**	EPA 904.0	583717		
50342910001	**GAMW-56-042123**	EPA 904.0	583719		
50342910002	**GAMW-56B-042123**	EPA 904.0	583719		
50342911001	**GAMW-08-042123**	EPA 904.0	584735		
50342911002	**GAMW-08B-042123**	EPA 904.0	584735		
50342911003	**GAMW-16BR-042123**	EPA 904.0	584735		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343023001	**GAMW-53-042423**	EPA 904.0	585053		
50343023002	**GAMW-53B-042423**	EPA 904.0	585053		
50343169001	**GAMW-52-042523**	EPA 904.0	585067		
50343169002	**GAMW-52B-042523**	EPA 904.0	585067		
50343169003	**GAMW-52B-042523 MS**	EPA 904.0	585067		
50343169004	**GAMW-52B-042523 MSD**	EPA 904.0	585067		
50343169005	**FD-03-042523**	EPA 904.0	585067		
50343265001	**GAMW-54-042623**	EPA 904.0	585733		
50343265002	**GAMW-54B-042623**	EPA 904.0	585733		
50343265003	**GAMW-55R-042623**	EPA 904.0	585733		
50343266001	**GAMW-55B-042623**	EPA 904.0	585492		
50343266002	**FB-03-042623**	EPA 904.0	585492		
50343609001	**GAMW-68-050123**	EPA 904.0	585904		
50343609002	**GAMW-68B-050123**	EPA 904.0	585904		
50343609003	**FB-04-050123**	EPA 904.0	585904		
50343609004	**FD-04-050123**	EPA 904.0	585904		
50341961001	**GAMW-14-041223**	Total Radium Calculation	584259		
50341961002	**GAMW-14B-041223**	Total Radium Calculation	584259		
50342143001	**GAMW-01-041323**	Total Radium Calculation	586079		
50342143002	**GAMW-01B-041323**	Total Radium Calculation	586079		
50342291001	**GAMW-03-041423**	Total Radium Calculation	585477		
50342291002	**GAMW-03B-041423**	Total Radium Calculation	585477		
50342291003	**GAMW-12-041423**	Total Radium Calculation	586223		
50342291004	**GAMW-12B-041423**	Total Radium Calculation	585477		
50342291005	**GAMW-13-041423**	Total Radium Calculation	585477		
50342291006	**GAMW-13B-041423**	Total Radium Calculation	585477		
50342385001	**GAMW-51-041523**	Total Radium Calculation	586082		
50342385002	**GAMW-51B-041523**	Total Radium Calculation	586082		
50342385003	**GAMW-59-041523**	Total Radium Calculation	586082		
50342385004	**GAMW-59B-041523**	Total Radium Calculation	586082		
50342609001	**GAMW-09-041923**	Total Radium Calculation	587898		
50342609002	**GAMW-09B-041923**	Total Radium Calculation	587898		
50342609003	**GAMW-17-041923**	Total Radium Calculation	587898		
50342609004	**GAMW-18-041923**	Total Radium Calculation	587898		
50342609005	**FD-01-041923**	Total Radium Calculation	587898		
50342609006	**FB-01-041923**	Total Radium Calculation	587898		
50342779001	**GAMW-17B-042023**	Total Radium Calculation	587931		
50342779002	**GAMW-18B-042023**	Total Radium Calculation	587931		
50342779003	**GAMW-60-042023**	Total Radium Calculation	587931		
50342779004	**GAMW-60B-042023**	Total Radium Calculation	587931		
50342779005	**GAMW-16R-042023**	Total Radium Calculation	587931		
50342779006	**FD-02-042023**	Total Radium Calculation	587931		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50341961

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50342779007	**FB-02-042023**	Total Radium Calculation	587931		
50342910001	**GAMW-56-042123**	Total Radium Calculation	587901		
50342910002	**GAMW-56B-042123**	Total Radium Calculation	587901		
50342911001	**GAMW-08-042123**	Total Radium Calculation	588247		
50342911002	**GAMW-08B-042123**	Total Radium Calculation	588247		
50342911003	**GAMW-16BR-042123**	Total Radium Calculation	588247		
50343023001	**GAMW-53-042423**	Total Radium Calculation	588253		
50343023002	**GAMW-53B-042423**	Total Radium Calculation	588253		
50343169001	**GAMW-52-042523**	Total Radium Calculation	589110		
50343169002	**GAMW-52B-042523**	Total Radium Calculation	589110		
50343169005	**FD-03-042523**	Total Radium Calculation	589110		
50343265001	**GAMW-54-042623**	Total Radium Calculation	589447		
50343265002	**GAMW-54B-042623**	Total Radium Calculation	589447		
50343265003	**GAMW-55R-042623**	Total Radium Calculation	589447		
50343266001	**GAMW-55B-042623**	Total Radium Calculation	589429		
50343266002	**FB-03-042623**	Total Radium Calculation	589429		
50343609001	**GAMW-68-050123**	Total Radium Calculation	590582		
50343609002	**GAMW-68B-050123**	Total Radium Calculation	590582		
50343609003	**FB-04-050123**	Total Radium Calculation	590582		
50343609004	**FD-04-050123**	Total Radium Calculation	590582		

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CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 50341961

50341961

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	Regulatory Agency
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Analysis Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)
1	GAMW-01	WT																	X	
2	GAMW-01B	WT																	X	
3	GAMW-68	WT																	X	
4	GAMW-68B	WT																	X	
5	GAMW-03	WT																	X	
6	GAMW-03B	WT																	X	
7	GAMW-12	WT																	X	
8	GAMW-12B	WT																	X	
9	GAMW-13	WT																	X	
10	GAMW-13B	WT																	X	
11	GAMW-14 – 041223	WT	G				1340		2			2							X	001
12	GAMW-14B –041223	WT	G				1325		2			2							X	002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	FE / WSP	4/12/23	1600	FE Daniel Hawkins/Pace	4/13/23	0855	2.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 4/12/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 4/13/23 1222

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):** 2.7°/2.5°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)		✓	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:		✓				✓
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER					Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																												Red	Yellow	Green	Black
COC Line Item	WGFU	DI	DG9H	VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
		R																														
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																	2												WT				
12																	2												WT				

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

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 D

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

WO# : 50342143

50342143

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140478Q.011	Pace Profile #:	9045-3

Regulatory Agency	
State / Location	
	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	GAMW-01 – 04/323	WT				4/13/23	1135		2			2						X		001
2	GAMW-01B – 04/323	WT				4/13/23	1250		2			2						X		MS/MSD 002 003 004
3	GAMW-02	WT																X		
4	GAMW-02B	WT																X		
5	GAMW-03	WT																X		
6	GAMW-03B	WT																X		
7	GAMW-12	WT																X		
8	GAMW-12B	WT																X		
9	GAMW-13	WT																X		
10	GAMW-13B	WT																X		
11	GAMW-14	WT																X		
12	GAMW-14B	WT																X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	[signature] / WSP	4/13/23	1600	FedEx						
	FedEx	4.14.23	0900	Nick Stinds / PACE	4.14.23	0900	0.7	Y	Y	Y

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	[illegible]
SIGNATURE of SAMPLER:	[signature]
DATE Signed:	4/13/23

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 4·14·2023 1129

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):** 0.7 | 0.7 | | | |

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

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other 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)		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
				Present	Absent	No VOA Vials Sent
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Containter Count form for details			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:

COC PAGE 1 **of** 1

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC										OTHER						Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																														Red	Yellow	Green	Black
COC Line Item	WGFU	DI	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																	2												WT				
2																	6												WT				
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	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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 D

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

WO# : 50342291

50342291

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	Regulatory Agency
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404989, 011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	[redacted]	WT																	X		
2	[redacted]	WT																	X		
3	[redacted]	WT																	X		
4	[redacted]	WT																	X		
5	GAMW-03 — 041423	WT	G			4/14/23	1305		2			2							X		001
6	GAMW-03B — 041423	WT	G			4/14/23	1430		2			2							X		002
7	GAMW-12 — 041423	WT	G			4/14/23	1200		2			2							X		003
8	GAMW-12B — 041423	WT	G			4/14/23	1430		2			2							X		004
9	GAMW-13 — 041423	WT	G			4/14/23	0945		2			2							X		005
10	GAMW-13B — 041423	WT	G			4/14/23	1150		2			2							X		006
11	[redacted]	WT																	X		
12	[redacted]	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	WSP	4/14/23	1700	Feaux						
	Feaux	4/17/23	0800		4/17/23	0800	4.8	N	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/14/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/15/23 1352 -MW / MCS 4/17/23 0910

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

.6/.6	4.8/4.8		

5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Ziploc

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 MCS 4/17			
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 2 of 2

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER					
COC Line Item	WGFU	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																															
2																															
3																															
4																															
5																2												55			
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

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 r

WO# : 50342385

50342385

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	81404789.011	Pace Profile #:	9045-3

Regulatory Agency: | State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Analysis Test: Radium 226+228(sum)	Residual Chlorine (Y/N)
13	[redacted]	WT																	X	
14	[redacted]	WT																	X	
15	[redacted]	WT																	X	
16	[redacted]	WT																	X	
17	[redacted]	WT																	X	
18	[redacted]	WT																	X	
19	[redacted]	WT																	X	
20	GAMW-51 – 041523	WT	G			4/15/23	1545		2			2							X	001
21	GAMW-51B – 041523	WT	G			4/17/23	1650		2			2							X	002
22	[redacted]	WT																	X	
23	[redacted]	WT																	X	
24	[redacted]	WT																	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	WSP	4/17/23	1630	Fed ex						
	Fed ex			Marcus Winslow	4/18/23	0900	24	Y	Y	Y
							15	✓	✓	✓

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/17/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO
Merrillville, IN 46410	Sarah Gilles	Address:
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3

Regulatory Agency:

State / Location: IN

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
25	[redacted]	WT																	X		
26	GAMW-59 – 041523	WT	G			4/15/23	1810		2			2							X		003
27	GAMW-59B – 041523	WT	G			4/15/23	1905		2			2							X		004
28	[redacted]	WT																	X		
29	GAMW-60B	WT																	X		
30	[redacted]	WT																	X		
31	GAMW-08B	WT																	X		
32	[redacted]	WT																	X		
33	[redacted]	WT																	X		
34	GAMW-16R	WT																	X		
35	[redacted]	WT																	X		
36	GAMW-17	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	[redacted] 4/17/23	[redacted]	1630	Fedex						
	Fedex			Maureen Winkler	4/18/23	0900	2.4 / 1.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [redacted]

SIGNATURE of SAMPLER: [redacted]

DATE Signed: 4/17/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/18/23 1303 -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):** 2.4/2.4 | 1.5/1.5 | | |
   (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **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:		✓				✓
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID		✓	Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS: GAMW-59-041523 Containers not labelled with time - MW 4/18/23

COC PAGE 1 of 2

Sample Container Count

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

COC Line Item	WGFU	VIALS: MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VIALS: VOA VIAL HS (>6mm)	VIALS: VG9U	VIALS: DG9U	VIALS: VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																												
2																												
3																												
4																												
5																												
6																												
7																												
8																2											Gt	
9																↓											↓	
10																												
11																												
12																												

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

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
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

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

COC PAGE 2 of 2

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																												
2																2												5
3																F												F
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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 D

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

WO# : 50342609

50342609

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
25	[redacted]	WT																	X		
26	[redacted]	WT																	X		
27	[redacted]	WT																	X		
28	[redacted]	WT																	X		
29	[redacted]	WT																	X		
30	[redacted]	WT																	X		
31	[redacted]	WT																	X		
32	GAMW-09 – 041923	WT	G			4/19/23			2			2							X		001
33	GAMW-09B – 041923	WT	G			4/19/23			2			2							X		002
34	[redacted]	WT																	X		
35	[redacted]	WT																	X		
36	GAMW-17 – 041923	WT	G			4/19/23	1340		2			2							X		003

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	4/19/23		FEDEX						
	FEDEX	4/20/23	0940		4/20/23	0940	2.3	Y	Y	Y
							2.8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. Brennan

SIGNATURE of SAMPLER: [signature] DATE Signed: 4/19/23

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140789.011	Pace Profile #:	9045-3

Regulatory Agency: | State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analytes Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)
37	GAMW-17B	WT																	X	
38	GAMW-18 -041923	WT	G			4/19/23	1340		2			2							X	CCM
39	GAMW-18B	WT																	X	
40	GAMW-46	WT																	X	
41	GAMW-46B	WT																	X	
42	GAMW-52	WT																	X	
43	GAMW-52B	WT																	X	
44	GAMW-53	WT																	X	
45	GAMW-53B	WT																	X	
46	GAMW-54	WT																	X	
47	GAMW-54B	WT																	X	
48	GAMW-55R	WT																	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	4/19/23		PDx						
	PDx	4/19/23	0840		4/20/23	0910	2.3			
							2.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/19/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 3 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
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	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:		Pace Profile #:	9045-3

Regulatory Agency:

State / Location: IN

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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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: Radium 226+228(sum)	Residual Chlorine (Y/N)	
49	[redacted]	WT																	X		
50	[redacted]	WT																	X		
51	[redacted]	WT																	X		
52	FD-01 – 041923	WT	G			4/19/23	1200		2			2							X		005
53	[redacted]	WT																	X		
54	[redacted]	WT																	X		
55	[redacted]	WT																	X		
56	[redacted]	WT																	X		
57	FB-01 – 041923	WT	G			4/19/23	1345		2			2							X		006
58	[redacted]	WT																	X		
59	[redacted]	WT																	X		
60	[redacted]	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA		4/19/23		FEDEX						
	FEDEX	4/20/23	0710		4/20/23	0810	2.3	Y	Y	Y
							2.8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed:

F-IN-Q-290-rev.22, 22Apr2022

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 4/26/23 1145

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):** 2.3/2.3 | 2.5/2.5 | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:		✓	

COMMENTS:

COC PAGE 1 **of** 3

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER							
		SBS																													
		DI																													
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																															
2																															
3																															
4																															
5																															
6																															
7																															
8																2												WT				
9																2												WT				
10																															
11																															
12																2												WT				

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 2 of 3

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																												
2																2												WT
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 3 of 3

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																												
2																												
3																												
4																2												45
5																												
6																												
7																												
8																												
9																2												45
10																												
11																												
12																												

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

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
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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

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 D

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WO# : 50342779

50342779

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	Merrillville, IN 46410		Sarah Gilles	Address:	
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37	GAMW-17B – 042023	WT	G			4/20/23	1025		2			2							X	
38	[redacted]	WT																	X	
39	GAMW-18B – 042023	WT	G			4/20/23	1005		2			2							X	
40	[redacted]	WT																	X	
41	[redacted]	WT																	X	
42	[redacted]	WT																	X	
43	GAMW-52B	WT																	X	
44	[redacted]	WT																	X	
45	[redacted]	WT																	X	
46	[redacted]	WT																	X	
47	[redacted]	WT																	X	
48	GAMW-55R	WT																	X	

Residual Chlorine (Y/N): 001 004 009 | 002 RC 4-21-23 | 002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	WSP	4/20/23	1630							
	Fedex	4/21/23	0910		4/21/23	0910	SW	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/20/23

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

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	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
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Regulatory Agency: —

State / Location: IN

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26	GAMW-59	WT																	X		
27	GAMW-59B	WT																	X		
28	GAMW-60 – 042023	WT	G			4/20/23	1115		2			2							X		003
29	GAMW-60B – 042023	WT	G			4/20/23	1225		2			2							X		004
30	GAMW-66	WT																	X		
31	GAMW-66B	WT																	X		
32	GAMW-67	WT																	X		
33	GAMW-67B	WT																	X		
34	GAMW-16R – 042023	WT	G			4/20/23	1355		2			2							X		005
35	GAMW-16RR	WT																	X		
36	GAMW-17	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	4/20/23	1630							
	Fedex	4/21/23	0910		4/21/23	0910	See Sur	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GUZMAN

SIGNATURE of SAMPLER: [signature] DATE Signed: 4/20/23

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140478 9. 01	Pace Profile #:	9045-3

Regulatory Agency	State / Location
	IN

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
49	[redacted]	WT																	X		
50	[redacted]	WT																	X		
51	[redacted]	WT																	X		
52	[redacted]	WT																	X		
53	FD-02 -042023	WT	G			4/20/23	1200		2			2							X		006
54	[redacted]	WT																	X		
55	[redacted]	WT																	X		
56	[redacted]	WT																	X		
57	[redacted]	WT																	X		
58	FB-02 - 042023	WT	G			4/21/23	1230		2			2							X		007
59	[redacted]	WT																	X		
60	[redacted]	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	4/20/23	1630							
	Fedex	4/21/23	0910		4/21/23	0910		Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GUZMAN

SIGNATURE of SAMPLER: [signature]

DATE Signed: 4/20/23

F-IN-Q-290-rev.22, 22Apr2022

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MCS 4/21/23 1033

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):** 1.1/1.2 | 1.1/1.2 | 1.4/1.5 | (Initial/Corrected)
   RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 3

Sample Container Count

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

			VIALS					AMBER GLASS							PLASTIC								OTHER							
		MeOH (only)																										Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																										Red	Yellow	Green	Black
		DI																													
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																6												WT				
2																																
3																2												WT				
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 2 of 3

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER					Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		MeOH (only)																											Red	Yellow	Green	Black
		SBS																													
		DI																													
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																															
2																															
3																												5			
4																2												WA			
5																2												WA			
6																															
7																															
8																															
9																															
10																2												WA			
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

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

COC PAGE 3 of 3

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER							
		MeOH (only)																												
		SBS																												
		DI																												
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																														
2																														
3																														
4																														
5																2														
6																														
7																														
8																														
9																														
10																2														
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

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

WO#: 50342910

50342910

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 Client Information:

Company:	NiSource_WSP
Address:	801 E. 86th Avenue
	Merrillville, IN 46410
Email:	Thomas.Haskins@wsp.com
Phone:	(603)782-2433 Fax
Requested Due Date:	10 day TAT

Section B

Report To:	
Copy To:	Gabriel Dixon, Danielle Sylvia
	Sarah Gilles
Purchase Order #:	PO33924
Project Name:	RMSGS Assessment Apr23
Project #:	314047894.011

Section C — Invoice Information:

Attention:	Jeff Loewe U126177
Company Name:	NIPSCO
Address:	
Pace Quote:	
Pace Project Manager:	tina.sayer@pacelabs.com,
Pace Profile #:	9045-3

Regulatory Agency: | State / Location: IN

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

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
49	GAMW-55B	WT																	X		
50	GAMW-56 – 042123	WT	G			4/21/23	1055		2			2							X		001
51	GAMW-56B – 042123	WT	G			4/21/23	1330		2			2							X		002
52	FB-01	WT																	X		
53	FD-02	WT																	X		
54	FD-03	WT																	X		
55	FD-04	WT																	X		
56	FD-05	WT																	X		
57	FB-01	WT																	X		
58	FB-02	WT																	X		
59	FB-03	WT																	X		
60	FB-04	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	4/21/23	1130	FedEx						
	FedEx	4.22.23	0915	Nicole Shields / PACE	4.22.23	0915	0.4; 0.3	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [redacted]

SIGNATURE of SAMPLER: [redacted] DATE Signed: 4/21/23

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 4.22.2023 0940

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):** 0.4/0.4 | 0.3/0.3 | | | **(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)		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:** ~~Nitrates by 353.2~~ NMS 4.22.23	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
				Present	Absent	No VOA Vials Sent
Containers Intact?:	X		Headspace in VOA Vials (>6mm): See Containter Count form for details			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:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	VIALS: MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VIALS: VOA VIAL HS (>6mm)	VIALS: VG9U	VIALS: DG9U	VIALS: VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ Zn Ac Black NaOH/Zn Ac >9
1																																
2																2													WT				
3																2													WT				
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

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

WO# : 50342911

50342911

IN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A Required Client Information:		Section C Invoice Information:	
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	Regulatory Agency
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 314047789.011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
25	GAMW-58B	WT																	X		
26	GAMW-59	WT																	X		
27	GAMW-59B	WT																	X		
28	GAMW-60	WT																	X		
29	GAMW-60B	WT																	X		
30	GAMW-08 – 042123	WT	G			4/21/23	0955		2			2							X		001
31	GAMW-08B – 042123	WT	G			4/21/23	1050		2			2							X		002
32	GAMW-09	WT																	X		
33	GAMW-09B	WT																	X		
34	GAMW-16R	WT																	X		
35	GAMW-16BR – 042123	WT	G			4/21/23	0940		2			2							X		003
36	GAMW-17	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	WSP	4/21/23	1630	FedEx						
	FedEx	4-22-23	0915	Nicole Shields / PACE	4-22-23	0915	0.4 : 0.3 :	Y	Y	Y

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:			TEMP in C	Received on Ice (Y/N)	Custody Seal Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed: 4/21/23					

F-IN-Q-290-rev.22, 22Apr2022

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 4.22.2023 0940

1. **Courier:** ☒ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ USPS ☒ OTHER NO
2. **Custody Seal on Cooler/Box Present:** ☒ Yes ☐ No — NMS 4.22.23
3. **(If yes)Seals Intact:** ☒ Yes ☐ No (leave blank if no seals were present)
4. **Thermometer:** 1 2 3 4 5 6 A B C (D) E F
5. **Cooler Temperature(s):** (Initial/Corrected) 0.4/0.4 | 0.3/0.3 | | | RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
6. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Plastic Bag
7. **Ice Type:** ☒ Wet ☐ Blue ☐ None
8. **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:** ~~Nitrates by 353.2~~ NMS 4.22.23	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:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	VIALS: MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VIALS: VOA VIAL HS (>6mm)	VIALS: VG9U	VIALS: DG9U	VIALS: VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																2												WT				
7																2												WT				
8																																
9																																
10																																
11																2												WT				
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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# : 50343023

50343023

Request Document

evant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:			
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011/04	Pace Profile #:	9045-3

Regulatory Agency:

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)
37	[redacted]	WT																	X	
38	[redacted]	WT																	X	
39	[redacted]	WT																	X	
40	[redacted]	WT																	X	
41	[redacted]	WT																	X	
42	[redacted]	WT																	X	
43	[redacted]	WT																	X	
44	GAMW-53 - 042423	WT	G			4/24/23	1105		2			2							X	
45	GAMW-53B - 042423	WT	G			4/24/23	1250		2			2							X	
46	[redacted]	WT																	X	
47	[redacted]	WT																	X	
49	GAMW-55R	WT																	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	4/24/23	1600	FEDEX						
	FEDEX	4/25/23	0800		4/25/23	0900	1.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/24/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MR 4/25/23 1145

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 _____

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.** **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:		✓				✓
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:		✓	

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER					
		SBS																											
		DI																											
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/Zinc Acetate Blue NaOH Zn Ac
1																															
2																															
3																															
4																															
5																															
6																															
7																															
8																2												5			
9																2												5			
10																															
11																															
12																															

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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 Do

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

WO# : 50343169

50343169

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	34047189.011/04	Pace Profile #:	9045-3

Regulatory Agency: | State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)	
37	[redacted]	WT																	X		
38	[redacted]	WT																	X		
39	[redacted]	WT																	X		
40	[redacted]	WT																	X		
41	[redacted]	WT																	X		
42	GAMW-52 – 042523	WT	G			4/25/23	0905		2			2							X		CU
43	GAMW-52B – 042523	WT	G			4/25/23	1110		2			2							X		MS2/MSD2 002 003 004
44	GAMW-53 -	WT																	X		
45	[redacted]	WT																	X		
46	[redacted]	WT																	X		
47	[redacted]	WT																	X		
48	[redacted]	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	[signature] / WSP	4/25/23	1300	[signature]	4/26	0905	0.7	y	y	y
							0.5			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R [redacted]

SIGNATURE of SAMPLER: [signature]

DATE Signed: 4/25/23

TEMP in C | Received on ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011 /04	Pace Profile #:	9045-3

Regulatory Agency: —

State / Location: IN

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)
49	[redacted]	WT																	X	
50	[redacted]	WT																	X	
51	[redacted]	WT																	X	
52	[redacted]	WT																	X	
53	[redacted]	WT																	X	
54	FD-03 – 042523	WT	G			4/25/23	1200		2			2							X	005
55	[redacted]	WT																	X	
56	[redacted] FD-05	WT																	X	
57	[redacted]	WT																	X	
58	[redacted]	WT																	X	
59	[redacted]	WT																	X	
60	[redacted]	WT																	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	4/25/23	1300				0.7	Y	Y	Y
	Pace	4/25	0905		4/26	0905	0.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 4/25/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: OA/26/23 1325 SMK

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):** 0.7/0.7 | 0.5/0.3 | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				✓
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):	Present	Absent	No VOA Vials Sent
Containers Intact?:	✓		See Containter Count form for details			✓
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:

COC PAGE 1 **of** 2

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																												
2																												
3																												
4																												
5																												
6																2												5
7																↓												↓
8																												
9																												
10																												
11																												
12																												

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

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 2 of 2

Sample Container Count

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

		MeOH (only)	SBS	DI	VIALS					AMBER GLASS							PLASTIC									OTHER							
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																2												4				
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
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WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

Plastic

BP4U	125mL unpreserved plastic
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Miscellaneous

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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 Do

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

WO# : 50343609

50343609

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	Regulatory Agency
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	[redacted]	WT																	X		
2	[redacted]	WT																	X		
3	GAMW-68 — 050123	WT	G			5/1/23			2			2							X		UU1
4	GAMW-68B — 050123	WT	G			5/1/23			2			2							X		UU2
5	[redacted]	WT																	X		
6	[redacted]	WT																	X		
7	[redacted]	WT																	X		
8	[redacted]	WT																	X		
9	[redacted]	WT																	X		
10	[redacted]	WT																	X		
11	GAMW-14	WT																	X		
12	[redacted]	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	[signature] WSP	5/1/23	1700	[signature]						
	[signature]	5/2	0920	[signature]	5/2	0920	0.9	y	y	y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. Gaumond

SIGNATURE of SAMPLER: [signature] DATE Signed: 5/1/23

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 Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140478.9.011	Pace Profile #:	9045-3

Regulatory Agency	
State / Location	IN

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Analysis Test: Radium 226+228(sum)	Residual Chlorine (Y/N)	
61	[redacted] FB-04-050123	WT	G			5/1/23	1445		2			2							X		CW3
62	[redacted]																				
63	[redacted]																				
64	[redacted]																				
65	[redacted]																				
66	[redacted]																				
67	[redacted]																				
68	[redacted]																				
69	[redacted]																				
70	[redacted]																				
71	[redacted]																				
72	[redacted]																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace PA	[redacted] / WSP	5/1/23	1700	[redacted]						
	KSR	5/2	0910		5/2	0910	04	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GUERRA

SIGNATURE of SAMPLER: [redacted]

DATE Signed: 5/1/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 05/02/23 1240 SMK

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 | 0.4 | | | |

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

5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **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:		✓				✓
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS: RCND additional BPIN containers FD-04_050123 @1200 -DW2

Analyze FD-04-050123 per D. Sylvia email. 05/02/23tms

COC PAGE 1 of 2

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC										OTHER					Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																														Red	Yellow	Green	Black
COC Line Item	WGFU	DI	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																																	
2																																	
3																	2												4				
4																	1												1				
5																																	
6																																	
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Container Codes

Glass

)G9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
)G9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
)G9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
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'G9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
1	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
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VGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
GFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
:G3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
G3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
G1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
G1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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
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COC PAGE 2 of 2

Sample Container Count

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

			VIALS					AMBER GLASS							PLASTIC									OTHER						Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		MeOH (only)																											Red	Yellow	Green	Black
		SBS																														
		DI																														
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																2												5				
2																↓	RD-04 050123 @1200											↓				
3																																
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)G9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
G9H	40mL HCl clear vial	AG1H	1L HCl amber glass
G9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
G9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
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/GKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
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GFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
G3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
G3F	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

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
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WT	Water
SL	Solid Solid
OL:	Oil
NAL	Non-aqueous liquid
WP	Wipe

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

May 23, 2023

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

RE: Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between April 28, 2023 and May 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,

Tina Sayer

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

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

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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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50343391001	**GAMW-46-042723**	Water	04/27/23 12:25	04/28/23 08:50
50343391002	**GAMW-46B-042723**	Water	04/27/23 13:55	04/28/23 08:50
50343749001	**GAMW-42-050223**	Water	05/02/23 10:35	05/03/23 09:30
50343749002	**GAMW-42B-050223**	Water	05/02/23 12:50	05/03/23 09:30
50343920001	**GAMW-42C-050323**	Water	05/03/23 11:00	05/04/23 09:25
50343920002	**GAMW-43-050323**	Water	05/03/23 13:00	05/04/23 09:25
50343920003	**GAMW-43B-050323**	Water	05/03/23 14:25	05/04/23 09:25
50343920004	**FD-05-050323**	Water	05/03/23 12:00	05/04/23 09:25
50344057001	**GAMW-44-050423**	Water	05/04/23 11:05	05/05/23 08:50
50344057002	**GAMW-44B-050423**	Water	05/04/23 12:25	05/05/23 08:50
50344057003	**GAMW-57-050423**	Water	05/04/23 13:55	05/05/23 08:50
50344058001	**FB-05-050423**	Water	05/04/23 14:10	05/05/23 08:50
50344194001	**GAMW-57B-050523**	Water	05/05/23 10:15	05/06/23 09:15
50344194002	**GAMW-58-050523**	Water	05/05/23 11:50	05/06/23 09:15
50344194003	**GAMW-58B-050523**	Water	05/05/23 13:10	05/06/23 09:15

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50343391001	**GAMW-46-042723**	EPA 9056	RMR	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343391002	**GAMW-46B-042723**	EPA 9056	RMR	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343749001	**GAMW-42-050223**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343749002	**GAMW-42B-050223**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50343920001	**GAMW-42C-050323**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343920002	**GAMW-43-050323**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343920003	**GAMW-43B-050323**	EPA 9056	ADM	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50343920004	**FD-05-050323**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	TRK	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50344057001	**GAMW-44-050423**	EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50344057002	**GAMW-44B-050423**	EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50344057003	**GAMW-57-050423**	EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50344058001	**FB-05-050423**	EPA 9056	RID	3	PASI-I
		EPA 6010	DJS	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50344194001	**GAMW-57B-050523**	EPA 9056	RID	3	PASI-I
		EPA 6010	ELK	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	MGM	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50344194002	**GAMW-58-050523**	EPA 9056	RID	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I
50344194003	**GAMW-58B-050523**	EPA 9056	RID	3	PASI-I
		EPA 6010	ELK	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	BMS	1	PASI-I

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343391001	**GAMW-46-042723**					
EPA 9056	Chloride	2.1	mg/L	0.25	05/12/23 10:23	
EPA 9056	Fluoride	0.062J	mg/L	0.050	05/12/23 10:23	
EPA 9056	Sulfate	36.5	mg/L	0.25	05/12/23 10:23	
EPA 6010	Calcium	32.7	mg/L	1.0	05/11/23 11:21	
EPA 6020	Antimony	0.00012J	mg/L	0.0010	05/03/23 01:24	
EPA 6020	Arsenic	0.00033J	mg/L	0.0010	05/03/23 01:24	
EPA 6020	Barium	0.0082	mg/L	0.0010	05/03/23 01:24	
EPA 6020	Chromium	0.00034J	mg/L	0.0020	05/03/23 01:24	
EPA 6020	Cobalt	0.00013J	mg/L	0.0010	05/03/23 01:24	
EPA 6020	Lead	0.000053J	mg/L	0.0010	05/03/23 01:24	
EPA 6020	Molybdenum	0.00047J	mg/L	0.0010	05/03/23 01:24	
SM 2540C	Total Dissolved Solids	149	mg/L	10.0	05/01/23 17:05	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/09/23 16:26	H3
50343391002	**GAMW-46B-042723**					
EPA 9056	Chloride	6.9	mg/L	0.25	05/10/23 20:59	
EPA 9056	Fluoride	0.052J	mg/L	0.050	05/10/23 20:59	
EPA 9056	Sulfate	65.3	mg/L	2.5	05/12/23 10:41	
EPA 6010	Boron	0.049J	mg/L	0.10	05/11/23 11:23	
EPA 6010	Calcium	51.8	mg/L	1.0	05/11/23 11:23	
EPA 6020	Antimony	0.000053J	mg/L	0.0010	05/03/23 01:28	
EPA 6020	Arsenic	0.00051J	mg/L	0.0010	05/03/23 01:28	
EPA 6020	Barium	0.025	mg/L	0.0010	05/03/23 01:28	
EPA 6020	Chromium	0.00027J	mg/L	0.0020	05/03/23 01:28	
EPA 6020	Cobalt	0.000051J	mg/L	0.0010	05/03/23 01:28	
EPA 6020	Lead	0.000042J	mg/L	0.0010	05/03/23 01:28	
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	05/03/23 01:28	
SM 2540C	Total Dissolved Solids	202	mg/L	10.0	05/01/23 17:05	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	05/09/23 16:27	H3
50343749001	**GAMW-42-050223**					
EPA 9056	Chloride	11.1	mg/L	2.5	05/12/23 07:20	
EPA 9056	Fluoride	0.16	mg/L	0.050	05/12/23 07:03	
EPA 9056	Sulfate	52.5	mg/L	2.5	05/12/23 07:20	
EPA 6010	Calcium	64.7	mg/L	1.0	05/12/23 15:13	
EPA 6020	Antimony	0.000084J	mg/L	0.0010	05/10/23 17:36	
EPA 6020	Arsenic	0.00092J	mg/L	0.0010	05/10/23 17:36	
EPA 6020	Barium	0.023	mg/L	0.0010	05/10/23 17:36	
EPA 6020	Chromium	0.00073J	mg/L	0.0020	05/10/23 17:36	
EPA 6020	Cobalt	0.000083J	mg/L	0.0010	05/10/23 17:36	
EPA 6020	Lead	0.000060J	mg/L	0.0010	05/10/23 17:36	
EPA 6020	Molybdenum	0.0036	mg/L	0.0010	05/10/23 17:36	
SM 2540C	Total Dissolved Solids	235	mg/L	10.0	05/05/23 08:22	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	05/12/23 15:34	H3
50343749002	**GAMW-42B-050223**					
EPA 9056	Chloride	11.1	mg/L	2.5	05/12/23 08:47	
EPA 9056	Fluoride	0.16	mg/L	0.050	05/12/23 08:30	
EPA 9056	Sulfate	46.9	mg/L	0.25	05/12/23 08:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343749002	**GAMW-42B-050223**					
EPA 6010	Calcium	67.6	mg/L	1.0	05/12/23 15:15	
EPA 6020	Antimony	0.000076J	mg/L	0.0010	05/10/23 17:39	
EPA 6020	Arsenic	0.00030J	mg/L	0.0010	05/10/23 17:39	
EPA 6020	Barium	0.023	mg/L	0.0010	05/10/23 17:39	
EPA 6020	Chromium	0.00084J	mg/L	0.0020	05/10/23 17:39	
EPA 6020	Cobalt	0.00014J	mg/L	0.0010	05/10/23 17:39	
EPA 6020	Lead	0.00016J	mg/L	0.0010	05/10/23 17:39	
EPA 6020	Molybdenum	0.0030	mg/L	0.0010	05/10/23 17:39	
SM 2540C	Total Dissolved Solids	244	mg/L	10.0	05/05/23 08:23	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/12/23 15:35	H3
50343920001	**GAMW-42C-050323**					
EPA 9056	Chloride	11.4	mg/L	2.5	05/14/23 15:37	
EPA 9056	Fluoride	0.22	mg/L	0.050	05/14/23 15:20	
EPA 9056	Sulfate	11.9	mg/L	0.25	05/14/23 15:20	
EPA 6010	Boron	0.74	mg/L	0.10	05/12/23 15:22	
EPA 6010	Calcium	57.4	mg/L	1.0	05/12/23 15:22	
EPA 6010	Lithium	0.033	mg/L	0.010	05/12/23 15:22	
EPA 6020	Antimony	0.000091J	mg/L	0.0010	05/10/23 17:52	
EPA 6020	Arsenic	0.00055J	mg/L	0.0010	05/10/23 17:52	
EPA 6020	Barium	0.010	mg/L	0.0010	05/10/23 17:52	
EPA 6020	Chromium	0.0015J	mg/L	0.0020	05/10/23 17:52	
EPA 6020	Cobalt	0.00048J	mg/L	0.0010	05/10/23 17:52	
EPA 6020	Lead	0.00074J	mg/L	0.0010	05/10/23 17:52	
EPA 6020	Molybdenum	0.0037	mg/L	0.0010	05/10/23 17:52	
EPA 6020	Thallium	0.000040J	mg/L	0.0010	05/10/23 17:52	
SM 2540C	Total Dissolved Solids	277	mg/L	10.0	05/06/23 09:00	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/18/23 13:03	H3
50343920002	**GAMW-43-050323**					
EPA 9056	Chloride	0.39	mg/L	0.25	05/14/23 16:47	
EPA 9056	Fluoride	0.14	mg/L	0.050	05/14/23 16:47	
EPA 9056	Sulfate	24.6	mg/L	0.25	05/14/23 16:47	
EPA 6010	Calcium	25.2	mg/L	1.0	05/12/23 15:25	
EPA 6020	Antimony	0.00027J	mg/L	0.0010	05/10/23 17:56	
EPA 6020	Arsenic	0.0023	mg/L	0.0010	05/10/23 17:56	
EPA 6020	Barium	0.015	mg/L	0.0010	05/10/23 17:56	
EPA 6020	Cadmium	0.000013J	mg/L	0.00020	05/10/23 17:56	
EPA 6020	Chromium	0.00074J	mg/L	0.0020	05/10/23 17:56	
EPA 6020	Cobalt	0.00068J	mg/L	0.0010	05/10/23 17:56	
EPA 6020	Lead	0.00025J	mg/L	0.0010	05/10/23 17:56	
EPA 6020	Molybdenum	0.0031	mg/L	0.0010	05/10/23 17:56	
EPA 6020	Selenium	0.00028J	mg/L	0.0010	05/10/23 17:56	
SM 2540C	Total Dissolved Solids	111	mg/L	10.0	05/06/23 09:00	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	05/18/23 13:04	H3
50343920003	**GAMW-43B-050323**					
EPA 9056	Chloride	1.6	mg/L	0.25	05/14/23 17:40	
EPA 9056	Fluoride	0.18	mg/L	0.050	05/14/23 17:40	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343920003	**GAMW-43B-050323**					
EPA 9056	Sulfate	21.7	mg/L	0.25	05/14/23 17:40	
EPA 6010	Calcium	38.2	mg/L	1.0	05/12/23 15:27	
EPA 6020	Antimony	0.000088J	mg/L	0.0010	05/10/23 18:19	
EPA 6020	Arsenic	0.00044J	mg/L	0.0010	05/10/23 18:19	
EPA 6020	Barium	0.012	mg/L	0.0010	05/10/23 18:19	
EPA 6020	Chromium	0.00060J	mg/L	0.0020	05/10/23 18:19	
EPA 6020	Cobalt	0.00013J	mg/L	0.0010	05/10/23 18:19	
EPA 6020	Lead	0.00014J	mg/L	0.0010	05/10/23 18:19	
EPA 6020	Molybdenum	0.0022	mg/L	0.0010	05/10/23 18:19	
SM 2540C	Total Dissolved Solids	156	mg/L	10.0	05/06/23 09:00	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	05/18/23 13:06	H3
50343920004	**FD-05-050323**					
EPA 9056	Chloride	0.39	mg/L	0.25	05/14/23 18:32	
EPA 9056	Fluoride	0.14	mg/L	0.050	05/14/23 18:32	
EPA 9056	Sulfate	24.6	mg/L	0.25	05/14/23 18:32	
EPA 6010	Calcium	25.8	mg/L	1.0	05/12/23 15:29	
EPA 6020	Antimony	0.00026J	mg/L	0.0010	05/10/23 18:23	
EPA 6020	Arsenic	0.0023	mg/L	0.0010	05/10/23 18:23	
EPA 6020	Barium	0.015	mg/L	0.0010	05/10/23 18:23	
EPA 6020	Cadmium	0.000015J	mg/L	0.00020	05/10/23 18:23	
EPA 6020	Chromium	0.00077J	mg/L	0.0020	05/10/23 18:23	
EPA 6020	Cobalt	0.00068J	mg/L	0.0010	05/10/23 18:23	
EPA 6020	Lead	0.00029J	mg/L	0.0010	05/10/23 18:23	
EPA 6020	Molybdenum	0.0031	mg/L	0.0010	05/10/23 18:23	
EPA 6020	Selenium	0.00030J	mg/L	0.0010	05/10/23 18:23	
SM 2540C	Total Dissolved Solids	102	mg/L	10.0	05/08/23 14:02	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	05/18/23 13:07	H3
50344057001	**GAMW-44-050423**					
EPA 9056	Chloride	3.2	mg/L	0.25	05/16/23 18:52	
EPA 9056	Fluoride	0.13	mg/L	0.050	05/16/23 18:52	
EPA 9056	Sulfate	45.7	mg/L	2.5	05/16/23 19:10	
EPA 6010	Calcium	15.2	mg/L	1.0	05/17/23 08:39	
EPA 6020	Antimony	0.00044J	mg/L	0.0010	05/10/23 18:26	
EPA 6020	Arsenic	0.058	mg/L	0.0010	05/10/23 18:26	
EPA 6020	Barium	0.032	mg/L	0.0010	05/10/23 18:26	
EPA 6020	Beryllium	0.00030	mg/L	0.00020	05/10/23 18:26	
EPA 6020	Chromium	0.0061	mg/L	0.0020	05/10/23 18:26	
EPA 6020	Cobalt	0.0017	mg/L	0.0010	05/10/23 18:26	
EPA 6020	Lead	0.0014	mg/L	0.0010	05/10/23 18:26	
EPA 6020	Molybdenum	0.0037	mg/L	0.0010	05/10/23 18:26	
EPA 6020	Selenium	0.00095J	mg/L	0.0010	05/10/23 18:26	
SM 2540C	Total Dissolved Solids	159	mg/L	10.0	05/10/23 08:30	
SM 4500-H+B	pH at 25 Degrees C	6.3	Std. Units	0.10	05/19/23 08:15	H3
50344057002	**GAMW-44B-050423**					
EPA 9056	Chloride	1.6	mg/L	0.25	05/16/23 19:45	
EPA 9056	Fluoride	0.13	mg/L	0.050	05/16/23 19:45	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50344057002	**GAMW-44B-050423**					
EPA 9056	Sulfate	6.5	mg/L	0.25	05/16/23 19:45	
EPA 6010	Calcium	30.7	mg/L	1.0	05/17/23 08:46	
EPA 6020	Antimony	0.000061J	mg/L	0.0010	05/10/23 18:29	
EPA 6020	Arsenic	0.00030J	mg/L	0.0010	05/10/23 18:29	
EPA 6020	Barium	0.0084	mg/L	0.0010	05/10/23 18:29	
EPA 6020	Chromium	0.00041J	mg/L	0.0020	05/10/23 18:29	
EPA 6020	Cobalt	0.000060J	mg/L	0.0010	05/10/23 18:29	
EPA 6020	Lead	0.00026J	mg/L	0.0010	05/10/23 18:29	
EPA 6020	Molybdenum	0.0018	mg/L	0.0010	05/10/23 18:29	
SM 2540C	Total Dissolved Solids	81	mg/L	10.0	05/10/23 08:30	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	05/19/23 08:16	H3
50344057003	**GAMW-57-050423**					
EPA 9056	Chloride	2.2	mg/L	0.25	05/16/23 21:12	
EPA 9056	Sulfate	47.9	mg/L	2.5	05/16/23 21:29	
EPA 6010	Calcium	18.9	mg/L	1.0	05/17/23 08:48	
EPA 6020	Arsenic	0.00012J	mg/L	0.0010	05/10/23 18:33	
EPA 6020	Barium	0.016	mg/L	0.0010	05/10/23 18:33	
EPA 6020	Beryllium	0.000059J	mg/L	0.00020	05/10/23 18:33	
EPA 6020	Cadmium	0.000093J	mg/L	0.00020	05/10/23 18:33	
EPA 6020	Chromium	0.00096J	mg/L	0.0020	05/10/23 18:33	
EPA 6020	Cobalt	0.0015	mg/L	0.0010	05/10/23 18:33	
EPA 6020	Lead	0.00051J	mg/L	0.0010	05/10/23 18:33	
EPA 6020	Molybdenum	0.0010	mg/L	0.0010	05/10/23 18:33	
SM 2540C	Total Dissolved Solids	95	mg/L	10.0	05/10/23 08:32	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	05/19/23 08:17	H3
50344058001	**FB-05-050423**					
EPA 9056	Chloride	0.19J	mg/L	0.25	05/16/23 22:04	
EPA 6020	Barium	0.0015	mg/L	0.0010	05/10/23 17:16	C0
EPA 6020	Chromium	0.00028J	mg/L	0.0020	05/10/23 17:16	
SM 4500-H+B	pH at 25 Degrees C	6.3	Std. Units	0.10	05/19/23 08:19	H3
50344194001	**GAMW-57B-050523**					
EPA 9056	Chloride	15.3	mg/L	0.25	05/17/23 00:41	
EPA 9056	Fluoride	0.15	mg/L	0.050	05/17/23 00:41	
EPA 9056	Sulfate	16.9	mg/L	0.25	05/17/23 00:41	
EPA 6010	Boron	0.064J	mg/L	0.10	05/18/23 11:01	
EPA 6010	Calcium	47.8	mg/L	1.0	05/18/23 11:01	
EPA 6020	Arsenic	0.00063J	mg/L	0.0010	05/17/23 23:38	
EPA 6020	Barium	0.020	mg/L	0.0010	05/17/23 23:38	
EPA 6020	Chromium	0.00036J	mg/L	0.0020	05/17/23 23:38	
EPA 6020	Cobalt	0.000095J	mg/L	0.0010	05/17/23 23:38	
EPA 6020	Molybdenum	0.0030	mg/L	0.0010	05/17/23 23:38	
SM 2540C	Total Dissolved Solids	166	mg/L	10.0	05/11/23 08:27	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	05/22/23 12:49	H3
50344194002	**GAMW-58-050523**					
EPA 9056	Chloride	1.0	mg/L	0.25	05/17/23 01:33	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50344194002	**GAMW-58-050523**					
EPA 9056	Fluoride	0.48	mg/L	0.050	05/17/23 01:33	
EPA 9056	Sulfate	43.1	mg/L	0.25	05/17/23 01:33	
EPA 6010	Calcium	9.5	mg/L	1.0	05/18/23 11:08	
EPA 6020	Arsenic	0.0030	mg/L	0.0010	05/17/23 23:42	
EPA 6020	Barium	0.048	mg/L	0.0010	05/17/23 23:42	
EPA 6020	Beryllium	0.00082	mg/L	0.00020	05/17/23 23:42	
EPA 6020	Cadmium	0.00010J	mg/L	0.00020	05/17/23 23:42	
EPA 6020	Chromium	0.0010J	mg/L	0.0020	05/17/23 23:42	
EPA 6020	Cobalt	0.012	mg/L	0.0010	05/17/23 23:42	
EPA 6020	Lead	0.00028J	mg/L	0.0010	05/17/23 23:42	
EPA 6020	Molybdenum	0.00052J	mg/L	0.0010	05/17/23 23:42	
EPA 6020	Selenium	0.0029	mg/L	0.0010	05/17/23 23:42	
SM 2540C	Total Dissolved Solids	60	mg/L	10.0	05/11/23 08:28	
SM 4500-H+B	pH at 25 Degrees C	6.1	Std. Units	0.10	05/22/23 12:50	H3
50344194003	**GAMW-58B-050523**					
EPA 9056	Chloride	4.1	mg/L	0.25	05/17/23 02:26	
EPA 9056	Fluoride	0.18	mg/L	0.050	05/17/23 02:26	
EPA 9056	Sulfate	24.1	mg/L	0.25	05/17/23 02:26	
EPA 6010	Calcium	39.4	mg/L	1.0	05/18/23 11:11	
EPA 6020	Arsenic	0.00060J	mg/L	0.0010	05/18/23 00:02	
EPA 6020	Barium	0.014	mg/L	0.0010	05/18/23 00:02	
EPA 6020	Chromium	0.00035J	mg/L	0.0020	05/18/23 00:02	
EPA 6020	Cobalt	0.00011J	mg/L	0.0010	05/18/23 00:02	
EPA 6020	Molybdenum	0.0030	mg/L	0.0010	05/18/23 00:02	
SM 2540C	Total Dissolved Solids	131	mg/L	10.0	05/11/23 08:28	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	05/22/23 12:52	H3

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Method: **EPA 9056**
Description: 9056 IC Anions
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
15 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: 732229

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50343330001,50343399002

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

- MS (Lab ID: 3360571)
  - Chloride
  - Fluoride
- MSD (Lab ID: 3360572)
  - Chloride
  - Fluoride

QC Batch: 732629

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50344191001

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

- MS (Lab ID: 3362307)
  - Chloride
- MSD (Lab ID: 3362308)
  - Chloride

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Method: **EPA 9056**
Description: 9056 IC Anions
Client: NiSource_WSP Golder
Date: May 23, 2023

QC Batch: 732632

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50344231001

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

- MS (Lab ID: 3362325)
  - Sulfate
- MSD (Lab ID: 3362326)
  - Sulfate

Additional Comments:

Analyte Comments:

QC Batch: 732629

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

- MS (Lab ID: 3362307)
  - Chloride
- MSD (Lab ID: 3362308)
  - Chloride

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
15 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: 732537

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50343612001

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

- MS (Lab ID: 3361879)
  - Calcium
- MSD (Lab ID: 3361880)
  - Calcium

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
15 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: 733693

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50344194002

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 3367258)
  - Selenium
- MSD (Lab ID: 3367259)
  - Selenium

Additional Comments:

Analyte Comments:

QC Batch: 732043

C0: Result confirmed by second analysis.

- FB-05-050423 (Lab ID: 50344058001)
  - Barium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Method: **EPA 7470**
Description: 7470 Mercury
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
15 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.

QC Batch: 731912

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50343309009,50343399002

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 3359132)
  - Mercury
- MSD (Lab ID: 3359133)
  - Mercury

Additional Comments:

Analyte Comments:

QC Batch: 731913

1d: Closing CRD 132%. Sample negative for Hg

- GAMW-42-050223 (Lab ID: 50343749001)
  - Mercury

2d: Closing CRDL 132%. Sample negative for Hg.

- GAMW-42B-050223 (Lab ID: 50343749002)
  - Mercury

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
15 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: 732605

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

- FB-05-050423 (Lab ID: 50344058001)
  - Total Dissolved Solids

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: NiSource_WSP Golder
Date: May 23, 2023

General Information:
15 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-05-050423 (Lab ID: 50344058001)
- FD-05-050323 (Lab ID: 50343920004)
- GAMW-42-050223 (Lab ID: 50343749001)
- GAMW-42B-050223 (Lab ID: 50343749002)
- GAMW-42C-050323 (Lab ID: 50343920001)
- GAMW-43-050323 (Lab ID: 50343920002)
- GAMW-43B-050323 (Lab ID: 50343920003)
- GAMW-44-050423 (Lab ID: 50344057001)
- GAMW-44B-050423 (Lab ID: 50344057002)
- GAMW-46-042723 (Lab ID: 50343391001)
- GAMW-46B-042723 (Lab ID: 50343391002)
- GAMW-57-050423 (Lab ID: 50344057003)
- GAMW-57B-050523 (Lab ID: 50344194001)
- GAMW-58-050523 (Lab ID: 50344194002)
- GAMW-58B-050523 (Lab ID: 50344194003)

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: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-46-042723 **Lab ID: 50343391001** Collected: 04/27/23 12:25 Received: 04/28/23 08:50 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	**2.1**	mg/L	0.25	0.067	1		05/12/23 10:23	16887-00-6	
Fluoride	**0.062J**	mg/L	0.050	0.017	1		05/12/23 10:23	16984-48-8	
Sulfate	**36.5**	mg/L	0.25	0.085	1		05/12/23 10:23	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	ND	mg/L	0.10	0.038	1	05/08/23 08:04	05/11/23 11:21	7440-42-8	
Calcium	**32.7**	mg/L	1.0	0.16	1	05/08/23 08:04	05/11/23 11:21	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/08/23 08:04	05/11/23 11:21	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	**0.00012J**	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 01:24	7440-36-0	
Arsenic	**0.00033J**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 01:24	7440-38-2	
Barium	**0.0082**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 01:24	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 01:24	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 01:24	7440-43-9	
Chromium	**0.00034J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 01:24	7440-47-3	
Cobalt	**0.00013J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 01:24	7440-48-4	
Lead	**0.000053J**	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 01:24	7439-92-1	
Molybdenum	**0.00047J**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 01:24	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 01:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 01:24	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	ug/L	0.20	0.091	1	05/08/23 11:12	05/08/23 17:04	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	**149**	mg/L	10.0	10.0	1		05/01/23 17:05		
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		05/09/23 16:26		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-46B-042723 **Lab ID: 50343391002** Collected: 04/27/23 13:55 Received: 04/28/23 08:50 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	**6.9**	mg/L	0.25	0.067	1		05/10/23 20:59	16887-00-6	
Fluoride	**0.052J**	mg/L	0.050	0.017	1		05/10/23 20:59	16984-48-8	
Sulfate	**65.3**	mg/L	2.5	0.85	10		05/12/23 10:41	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	**0.049J**	mg/L	0.10	0.038	1	05/08/23 08:04	05/11/23 11:23	7440-42-8	
Calcium	**51.8**	mg/L	1.0	0.16	1	05/08/23 08:04	05/11/23 11:23	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/08/23 08:04	05/11/23 11:23	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	**0.000053J**	mg/L	0.0010	0.000036	1	04/30/23 22:14	05/03/23 01:28	7440-36-0	
Arsenic	**0.00051J**	mg/L	0.0010	0.000053	1	04/30/23 22:14	05/03/23 01:28	7440-38-2	
Barium	**0.025**	mg/L	0.0010	0.000051	1	04/30/23 22:14	05/03/23 01:28	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	04/30/23 22:14	05/03/23 01:28	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	04/30/23 22:14	05/03/23 01:28	7440-43-9	
Chromium	**0.00027J**	mg/L	0.0020	0.00013	1	04/30/23 22:14	05/03/23 01:28	7440-47-3	
Cobalt	**0.000051J**	mg/L	0.0010	0.000032	1	04/30/23 22:14	05/03/23 01:28	7440-48-4	
Lead	**0.000042J**	mg/L	0.0010	0.000034	1	04/30/23 22:14	05/03/23 01:28	7439-92-1	
Molybdenum	**0.0024**	mg/L	0.0010	0.000048	1	04/30/23 22:14	05/03/23 01:28	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	04/30/23 22:14	05/03/23 01:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	04/30/23 22:14	05/03/23 01:28	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	ug/L	0.20	0.091	1	05/08/23 11:12	05/08/23 17:06	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	**202**	mg/L	10.0	10.0	1		05/01/23 17:05		
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		05/09/23 16:27		H3

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(317)228-3100

ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-42-050223 **Lab ID: 50343749001** Collected: 05/02/23 10:35 Received: 05/03/23 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	**11.1**	mg/L	2.5	0.67	10		05/12/23 07:20	16887-00-6	
Fluoride	**0.16**	mg/L	0.050	0.017	1		05/12/23 07:03	16984-48-8	
Sulfate	**52.5**	mg/L	2.5	0.85	10		05/12/23 07:20	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	ND	mg/L	0.10	0.061	1	05/10/23 17:45	05/12/23 15:13	7440-42-8	
Calcium	**64.7**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:13	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 15:13	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	0.000036	1	05/07/23 21:00	05/10/23 17:36	7440-36-0	
Arsenic	**0.00092J**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:36	7440-38-2	
Barium	**0.023**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:36	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:36	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:36	7440-43-9	
Chromium	**0.00073J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:36	7440-47-3	
Cobalt	**0.000083J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:36	7440-48-4	
Lead	**0.000060J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:36	7439-92-1	
Molybdenum	**0.0036**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:36	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:36	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	ug/L	0.20	0.091	1	05/09/23 11:13	05/09/23 18:17	7439-97-6	1d,F5
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		05/05/23 08:22		
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		05/12/23 15:34		H3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-42B-050223 **Lab ID: 50343749002** Collected: 05/02/23 12:50 Received: 05/03/23 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	**11.1**	mg/L	2.5	0.67	10		05/12/23 08:47	16887-00-6	
Fluoride	**0.16**	mg/L	0.050	0.017	1		05/12/23 08:30	16984-48-8	
Sulfate	**46.9**	mg/L	0.25	0.085	1		05/12/23 08:30	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	ND	mg/L	0.10	0.061	1	05/10/23 17:45	05/12/23 15:15	7440-42-8	
Calcium	**67.6**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:15	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 15:15	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	**0.000076J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 17:39	7440-36-0	
Arsenic	**0.00030J**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:39	7440-38-2	
Barium	**0.023**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:39	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:39	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:39	7440-43-9	
Chromium	**0.00084J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:39	7440-47-3	
Cobalt	**0.00014J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:39	7440-48-4	
Lead	**0.00016J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:39	7439-92-1	
Molybdenum	**0.0030**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:39	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:39	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	ug/L	0.20	0.091	1	05/09/23 11:13	05/09/23 18:19	7439-97-6	2d,F5
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	**244**	mg/L	10.0	10.0	1		05/05/23 08:23		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.8**	Std. Units	0.10	0.10	1		05/12/23 15:35		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-42C-050323 **Lab ID: 50343920001** Collected: 05/03/23 11:00 Received: 05/04/23 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	**11.4**	mg/L	2.5	0.67	10		05/14/23 15:37	16887-00-6	
Fluoride	**0.22**	mg/L	0.050	0.017	1		05/14/23 15:20	16984-48-8	
Sulfate	**11.9**	mg/L	0.25	0.085	1		05/14/23 15:20	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	**0.74**	mg/L	0.10	0.061	1	05/10/23 17:45	05/12/23 15:22	7440-42-8	
Calcium	**57.4**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:22	7440-70-2	
Lithium	**0.033**	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 15:22	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	**0.000091J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 17:52	7440-36-0	
Arsenic	**0.00055J**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:52	7440-38-2	
Barium	**0.010**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:52	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:52	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:52	7440-43-9	
Chromium	**0.0015J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:52	7440-47-3	
Cobalt	**0.00048J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:52	7440-48-4	
Lead	**0.00074J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:52	7439-92-1	
Molybdenum	**0.0037**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:52	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:52	7782-49-2	
Thallium	**0.000040J**	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:52	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	ug/L	0.20	0.12	1	05/09/23 18:41	05/10/23 07:51	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		05/06/23 09:00		
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		05/18/23 13:03		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-43-050323 **Lab ID: 50343920002** Collected: 05/03/23 13:00 Received: 05/04/23 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	**0.39**	mg/L	0.25	0.067	1		05/14/23 16:47	16887-00-6	
Fluoride	**0.14**	mg/L	0.050	0.017	1		05/14/23 16:47	16984-48-8	
Sulfate	**24.6**	mg/L	0.25	0.085	1		05/14/23 16:47	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	05/10/23 17:45	05/12/23 15:25	7440-42-8	
Calcium	**25.2**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:25	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 15:25	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	**0.00027J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 17:56	7440-36-0	
Arsenic	**0.0023**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:56	7440-38-2	
Barium	**0.015**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:56	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:56	7440-41-7	
Cadmium	**0.000013J**	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:56	7440-43-9	
Chromium	**0.00074J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:56	7440-47-3	
Cobalt	**0.00068J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:56	7440-48-4	
Lead	**0.00025J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:56	7439-92-1	
Molybdenum	**0.0031**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:56	7439-98-7	
Selenium	**0.00028J**	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:56	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	ug/L	0.20	0.12	1	05/09/23 18:41	05/10/23 07:53	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	**111**	mg/L	10.0	10.0	1		05/06/23 09:00		
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		05/18/23 13:04		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-43B-050323 **Lab ID: 50343920003** Collected: 05/03/23 14:25 Received: 05/04/23 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	**1.6**	mg/L	0.25	0.067	1		05/14/23 17:40	16887-00-6	
Fluoride	**0.18**	mg/L	0.050	0.017	1		05/14/23 17:40	16984-48-8	
Sulfate	**21.7**	mg/L	0.25	0.085	1		05/14/23 17:40	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	ND	mg/L	0.10	0.061	1	05/10/23 17:45	05/12/23 15:27	7440-42-8	
Calcium	**38.2**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:27	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 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	**0.000088J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 18:19	7440-36-0	
Arsenic	**0.00044J**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 18:19	7440-38-2	
Barium	**0.012**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 18:19	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 18:19	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 18:19	7440-43-9	
Chromium	**0.00060J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 18:19	7440-47-3	
Cobalt	**0.00013J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 18:19	7440-48-4	
Lead	**0.00014J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 18:19	7439-92-1	
Molybdenum	**0.0022**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 18:19	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 18:19	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	ug/L	0.20	0.12	1	05/09/23 18:41	05/10/23 07:56	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	**156**	mg/L	10.0	10.0	1		05/06/23 09:00		
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		05/18/23 13:06		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: FD-05-050323 **Lab ID: 50343920004** Collected: 05/03/23 12:00 Received: 05/04/23 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	**0.39**	mg/L	0.25	0.067	1		05/14/23 18:32	16887-00-6	
Fluoride	**0.14**	mg/L	0.050	0.017	1		05/14/23 18:32	16984-48-8	
Sulfate	**24.6**	mg/L	0.25	0.085	1		05/14/23 18:32	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	ND	mg/L	0.10	0.061	1	05/10/23 17:45	05/12/23 15:29	7440-42-8	
Calcium	**25.8**	mg/L	1.0	0.088	1	05/10/23 17:45	05/12/23 15:29	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/10/23 17:45	05/12/23 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	**0.00026J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 18:23	7440-36-0	
Arsenic	**0.0023**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 18:23	7440-38-2	
Barium	**0.015**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 18:23	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 18:23	7440-41-7	
Cadmium	**0.000015J**	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 18:23	7440-43-9	
Chromium	**0.00077J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 18:23	7440-47-3	
Cobalt	**0.00068J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 18:23	7440-48-4	
Lead	**0.00029J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 18:23	7439-92-1	
Molybdenum	**0.0031**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 18:23	7439-98-7	
Selenium	**0.00030J**	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 18:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 18:23	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	ug/L	0.20	0.12	1	05/09/23 18:41	05/10/23 07:58	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	**102**	mg/L	10.0	10.0	1		05/08/23 14:02		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		05/18/23 13:07		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-44-050423 **Lab ID: 50344057001** Collected: 05/04/23 11:05 Received: 05/05/23 08:50 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	**3.2**	mg/L	0.25	0.067	1		05/16/23 18:52	16887-00-6	
Fluoride	**0.13**	mg/L	0.050	0.017	1		05/16/23 18:52	16984-48-8	
Sulfate	**45.7**	mg/L	2.5	0.85	10		05/16/23 19:10	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	ND	mg/L	0.10	0.061	1	05/15/23 08:55	05/17/23 08:39	7440-42-8	
Calcium	**15.2**	mg/L	1.0	0.088	1	05/15/23 08:55	05/17/23 08:39	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/15/23 08:55	05/17/23 08:39	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	**0.00044J**	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 18:26	7440-36-0	
Arsenic	**0.058**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 18:26	7440-38-2	
Barium	**0.032**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 18:26	7440-39-3	
Beryllium	**0.00030**	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 18:26	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 18:26	7440-43-9	
Chromium	**0.0061**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 18:26	7440-47-3	
Cobalt	**0.0017**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 18:26	7440-48-4	
Lead	**0.0014**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 18:26	7439-92-1	
Molybdenum	**0.0037**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 18:26	7439-98-7	
Selenium	**0.00095J**	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 18:26	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	ug/L	0.20	0.091	1	05/10/23 09:56	05/10/23 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	**159**	mg/L	10.0	10.0	1		05/10/23 08:30		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.3**	Std. Units	0.10	0.10	1		05/19/23 08:15		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-44B-050423 **Lab ID: 50344057002** Collected: 05/04/23 12:25 Received: 05/05/23 08:50 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	**1.6**	mg/L	0.25	0.067	1		05/16/23 19:45	16887-00-6	
Fluoride	**0.13**	mg/L	0.050	0.017	1		05/16/23 19:45	16984-48-8	
Sulfate	**6.5**	mg/L	0.25	0.085	1		05/16/23 19:45	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	05/15/23 08:55	05/17/23 08:46	7440-42-8	
Calcium	**30.7**	mg/L	1.0	0.088	1	05/15/23 08:55	05/17/23 08:46	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/15/23 08:55	05/17/23 08:46	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	0.000036	1	05/07/23 21:00	05/10/23 18:29	7440-36-0	
Arsenic	**0.00030J**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 18:29	7440-38-2	
Barium	**0.0084**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 18:29	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 18:29	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 18:29	7440-43-9	
Chromium	**0.00041J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 18:29	7440-47-3	
Cobalt	**0.000060J**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 18:29	7440-48-4	
Lead	**0.00026J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 18:29	7439-92-1	
Molybdenum	**0.0018**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 18:29	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 18:29	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	ug/L	0.20	0.091	1	05/10/23 09:56	05/10/23 20:18	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	**81**	mg/L	10.0	10.0	1		05/10/23 08:30		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**8.0**	Std. Units	0.10	0.10	1		05/19/23 08:16		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-57-050423 **Lab ID: 50344057003** Collected: 05/04/23 13:55 Received: 05/05/23 08:50 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	**2.2**	mg/L	0.25	0.067	1		05/16/23 21:12	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		05/16/23 21:12	16984-48-8	
Sulfate	**47.9**	mg/L	2.5	0.85	10		05/16/23 21:29	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	ND	mg/L	0.10	0.061	1	05/15/23 08:55	05/17/23 08:48	7440-42-8	
Calcium	**18.9**	mg/L	1.0	0.088	1	05/15/23 08:55	05/17/23 08:48	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/15/23 08:55	05/17/23 08:48	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	ND	mg/L	0.0010	0.000036	1	05/07/23 21:00	05/10/23 18:33	7440-36-0	
Arsenic	**0.00012J**	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 18:33	7440-38-2	
Barium	**0.016**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 18:33	7440-39-3	
Beryllium	**0.000059J**	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 18:33	7440-41-7	
Cadmium	**0.000093J**	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 18:33	7440-43-9	
Chromium	**0.00096J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 18:33	7440-47-3	
Cobalt	**0.0015**	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 18:33	7440-48-4	
Lead	**0.00051J**	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 18:33	7439-92-1	
Molybdenum	**0.0010**	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 18:33	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 18:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 18:33	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	ug/L	0.20	0.091	1	05/10/23 09:56	05/10/23 20:20	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	**95**	mg/L	10.0	10.0	1		05/10/23 08:32		
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		05/19/23 08:17		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: FB-05-050423 **Lab ID: 50344058001** Collected: 05/04/23 14:10 Received: 05/05/23 08:50 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	**0.19J**	mg/L	0.25	0.067	1		05/16/23 22:04	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		05/16/23 22:04	16984-48-8	
Sulfate	ND	mg/L	0.25	0.085	1		05/16/23 22:04	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	05/15/23 08:55	05/17/23 08:50	7440-42-8	
Calcium	ND	mg/L	1.0	0.088	1	05/15/23 08:55	05/17/23 08:50	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/15/23 08:55	05/17/23 08:50	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	0.000036	1	05/07/23 21:00	05/10/23 17:16	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.000053	1	05/07/23 21:00	05/10/23 17:16	7440-38-2	
Barium	**0.0015**	mg/L	0.0010	0.000051	1	05/07/23 21:00	05/10/23 17:16	7440-39-3	C0
Beryllium	ND	mg/L	0.00020	0.000028	1	05/07/23 21:00	05/10/23 17:16	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.0000090	1	05/07/23 21:00	05/10/23 17:16	7440-43-9	
Chromium	**0.00028J**	mg/L	0.0020	0.00013	1	05/07/23 21:00	05/10/23 17:16	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000032	1	05/07/23 21:00	05/10/23 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.000034	1	05/07/23 21:00	05/10/23 17:16	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000048	1	05/07/23 21:00	05/10/23 17:16	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	05/07/23 21:00	05/10/23 17:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000033	1	05/07/23 21:00	05/10/23 17:16	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	ug/L	0.20	0.091	1	05/10/23 09:56	05/10/23 20:30	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	ND	mg/L	10.0	10.0	1		05/10/23 08:32		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.3**	Std. Units	0.10	0.10	1		05/19/23 08:19		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-57B-050523 **Lab ID: 50344194001** Collected: 05/05/23 10:15 Received: 05/06/23 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	**15.3**	mg/L	0.25	0.067	1		05/17/23 00:41	16887-00-6	
Fluoride	**0.15**	mg/L	0.050	0.017	1		05/17/23 00:41	16984-48-8	
Sulfate	**16.9**	mg/L	0.25	0.085	1		05/17/23 00:41	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	**0.064J**	mg/L	0.10	0.061	1	05/16/23 16:21	05/18/23 11:01	7440-42-8	
Calcium	**47.8**	mg/L	1.0	0.088	1	05/16/23 16:21	05/18/23 11:01	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/16/23 16:21	05/18/23 11:01	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	05/17/23 06:15	05/17/23 23:38	7440-36-0	
Arsenic	**0.00063J**	mg/L	0.0010	0.00010	1	05/17/23 06:15	05/17/23 23:38	7440-38-2	
Barium	**0.020**	mg/L	0.0010	0.00014	1	05/17/23 06:15	05/17/23 23:38	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/17/23 06:15	05/17/23 23:38	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	05/17/23 06:15	05/17/23 23:38	7440-43-9	
Chromium	**0.00036J**	mg/L	0.0020	0.00020	1	05/17/23 06:15	05/17/23 23:38	7440-47-3	
Cobalt	**0.000095J**	mg/L	0.0010	0.000082	1	05/17/23 06:15	05/17/23 23:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/17/23 06:15	05/17/23 23:38	7439-92-1	
Molybdenum	**0.0030**	mg/L	0.0010	0.000072	1	05/17/23 06:15	05/17/23 23:38	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00044	1	05/17/23 06:15	05/17/23 23:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	05/17/23 06:15	05/17/23 23:38	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	ug/L	0.20	0.12	1	05/11/23 16:08	05/12/23 08:32	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	**166**	mg/L	10.0	10.0	1		05/11/23 08:27		
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		05/22/23 12:49		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-58-050523 **Lab ID: 50344194002** Collected: 05/05/23 11:50 Received: 05/06/23 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	**1.0**	mg/L	0.25	0.067	1		05/17/23 01:33	16887-00-6	
Fluoride	**0.48**	mg/L	0.050	0.017	1		05/17/23 01:33	16984-48-8	
Sulfate	**43.1**	mg/L	0.25	0.085	1		05/17/23 01:33	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	05/16/23 16:21	05/18/23 11:08	7440-42-8	
Calcium	**9.5**	mg/L	1.0	0.088	1	05/16/23 16:21	05/18/23 11:08	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/16/23 16:21	05/18/23 11:08	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	ND	mg/L	0.0010	0.00013	1	05/17/23 06:15	05/17/23 23:42	7440-36-0	
Arsenic	**0.0030**	mg/L	0.0010	0.00010	1	05/17/23 06:15	05/17/23 23:42	7440-38-2	
Barium	**0.048**	mg/L	0.0010	0.00014	1	05/17/23 06:15	05/17/23 23:42	7440-39-3	
Beryllium	**0.00082**	mg/L	0.00020	0.000026	1	05/17/23 06:15	05/17/23 23:42	7440-41-7	
Cadmium	**0.00010J**	mg/L	0.00020	0.000054	1	05/17/23 06:15	05/17/23 23:42	7440-43-9	
Chromium	**0.0010J**	mg/L	0.0020	0.00020	1	05/17/23 06:15	05/17/23 23:42	7440-47-3	
Cobalt	**0.012**	mg/L	0.0010	0.000082	1	05/17/23 06:15	05/17/23 23:42	7440-48-4	
Lead	**0.00028J**	mg/L	0.0010	0.000080	1	05/17/23 06:15	05/17/23 23:42	7439-92-1	
Molybdenum	**0.00052J**	mg/L	0.0010	0.000072	1	05/17/23 06:15	05/17/23 23:42	7439-98-7	
Selenium	**0.0029**	mg/L	0.0010	0.00044	1	05/17/23 06:15	05/17/23 23:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	05/17/23 06:15	05/17/23 23:42	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	ug/L	0.20	0.12	1	05/11/23 16:08	05/12/23 08:35	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	**60**	mg/L	10.0	10.0	1		05/11/23 08:28		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		05/22/23 12:50		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Sample: GAMW-58B-050523 **Lab ID: 50344194003** Collected: 05/05/23 13:10 Received: 05/06/23 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	**4.1**	mg/L	0.25	0.067	1		05/17/23 02:26	16887-00-6	
Fluoride	**0.18**	mg/L	0.050	0.017	1		05/17/23 02:26	16984-48-8	
Sulfate	**24.1**	mg/L	0.25	0.085	1		05/17/23 02:26	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	ND	mg/L	0.10	0.061	1	05/16/23 16:21	05/18/23 11:11	7440-42-8	
Calcium	**39.4**	mg/L	1.0	0.088	1	05/16/23 16:21	05/18/23 11:11	7440-70-2	
Lithium	ND	mg/L	0.010	0.0062	1	05/16/23 16:21	05/18/23 11:11	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	ND	mg/L	0.0010	0.00013	1	05/17/23 06:15	05/18/23 00:02	7440-36-0	
Arsenic	**0.00060J**	mg/L	0.0010	0.00010	1	05/17/23 06:15	05/18/23 00:02	7440-38-2	
Barium	**0.014**	mg/L	0.0010	0.00014	1	05/17/23 06:15	05/18/23 00:02	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	05/17/23 06:15	05/18/23 00:02	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	05/17/23 06:15	05/18/23 00:02	7440-43-9	
Chromium	**0.00035J**	mg/L	0.0020	0.00020	1	05/17/23 06:15	05/18/23 00:02	7440-47-3	
Cobalt	**0.00011J**	mg/L	0.0010	0.000082	1	05/17/23 06:15	05/18/23 00:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	05/17/23 06:15	05/18/23 00:02	7439-92-1	
Molybdenum	**0.0030**	mg/L	0.0010	0.000072	1	05/17/23 06:15	05/18/23 00:02	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00044	1	05/17/23 06:15	05/18/23 00:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	05/17/23 06:15	05/18/23 00:02	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	ug/L	0.20	0.12	1	05/11/23 16:08	05/12/23 08:45	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	**131**	mg/L	10.0	10.0	1		05/11/23 08:28		
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		05/22/23 12:52		H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732229
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343391001, 50343391002

METHOD BLANK: 3360569 Matrix: Water
Associated Lab Samples: 50343391001, 50343391002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/12/23 13:50	
Fluoride	mg/L	ND	0.050	0.017	05/12/23 13:50	
Sulfate	mg/L	ND	0.25	0.085	05/12/23 13:50	

LABORATORY CONTROL SAMPLE: 3360570

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	105	80-120	
Sulfate	mg/L	5	5.4	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3360571 3360572

Parameter	Units	50343399002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3480	2500	2500	4770	4780	52	52	80-120	0	15	M0
Fluoride	mg/L	0.24J	10	10	7.6	7.6	73	74	80-120	1	15	M0
Sulfate	mg/L	226	50	50	272	270	91	88	80-120	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3360573 3360574

Parameter	Units	50343330001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	20.5	2.5	2.5	23.2	23.1	105	104	80-120	0	15	
Fluoride	mg/L	2.2	1	1	3.3	3.3	113	113	80-120	0	15	
Sulfate	mg/L	<2.0	5	5	5.1	5.3	102	105	80-120	3	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732629
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343749001, 50343749002

METHOD BLANK: 3362305 Matrix: Water
Associated Lab Samples: 50343749001, 50343749002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/12/23 09:57	
Fluoride	mg/L	ND	0.050	0.017	05/12/23 09:57	
Sulfate	mg/L	ND	0.25	0.085	05/12/23 09:57	

LABORATORY CONTROL SAMPLE: 3362306

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	102	80-120	
Sulfate	mg/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3362307 3362308

Parameter	Units	50344191001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9.9	2.5	2.5	13.1	13.2	129	129	80-120	0	15	E,M0
Fluoride	mg/L	0.14	1	1	1.2	1.2	105	106	80-120	0	15	
Sulfate	mg/L	278	500	500	746	745	94	93	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732632 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343920001, 50343920002, 50343920003, 50343920004

METHOD BLANK: 3362323 Matrix: Water
Associated Lab Samples: 50343920001, 50343920002, 50343920003, 50343920004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	05/14/23 04:57	
Fluoride	mg/L	ND	0.050	0.017	05/14/23 04:57	
Sulfate	mg/L	ND	0.25	0.085	05/14/23 04:57	

LABORATORY CONTROL SAMPLE: 3362324

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	1.0	101	80-120	
Sulfate	mg/L	5	4.7	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3362325 3362326

Parameter	Units	50344231001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	51.7	25	25	76.9	76.8	101	101	80-120	0	15	
Fluoride	mg/L	0.14	1	1	1.2	1.2	104	104	80-120	0	15	
Sulfate	mg/L	1420	500	500	1780	1770	72	71	80-120	0	15	M0

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 733242 | Analysis Method: EPA 9056
QC Batch Method: EPA 9056 | Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001, 50344194001, 50344194002, 50344194003

METHOD BLANK: 3365248 Matrix: Water
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001, 50344194001, 50344194002, 50344194003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.19J	0.25	0.067	05/16/23 11:29	
Fluoride	mg/L	ND	0.050	0.017	05/16/23 11:29	
Sulfate	mg/L	ND	0.25	0.085	05/16/23 11:29	

LABORATORY CONTROL SAMPLE: 3365249

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	1.0	105	80-120	
Sulfate	mg/L	5	4.7	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3365250 3365251

Parameter	Units	50344032016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	28600 ug/L	25	25	51.5	53.0	92	98	80-120	3	15	
Fluoride	mg/L	132 ug/L	1	1	1.2	1.2	109	109	80-120	0	15	
Sulfate	mg/L	15100 ug/L	5	5	20.0	20.0	98	98	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 731912
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343391001, 50343391002

METHOD BLANK: 3359128 Matrix: Water
Associated Lab Samples: 50343391001, 50343391002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	05/08/23 16:42	

LABORATORY CONTROL SAMPLE: 3359129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3359130 3359131

Parameter	Units	50343309009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.2	102	103	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3359132 3359133

Parameter	Units	50343399002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.27	15	15	8.8	8.2	58	54	75-125	7	20	M3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 731913
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343749001, 50343749002

METHOD BLANK: 3359143 Matrix: Water
Associated Lab Samples: 50343749001, 50343749002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	05/09/23 17:13	

LABORATORY CONTROL SAMPLE: 3359144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3359145 3359146

Parameter	Units	50343882002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	5.2	102	103	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 731917 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343920001, 50343920002, 50343920003, 50343920004

METHOD BLANK: 3359168 Matrix: Water
Associated Lab Samples: 50343920001, 50343920002, 50343920003, 50343920004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	05/10/23 07:21	

LABORATORY CONTROL SAMPLE: 3359169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.6	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3359170 3359171

Parameter	Units	50343704002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.5	5.5	110	109	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732425
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001

METHOD BLANK: 3361392 Matrix: Water
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	05/10/23 19:41	

LABORATORY CONTROL SAMPLE: 3361393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.4	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3361394 3361395

Parameter	Units	50344109009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.4	5.2	109	105	75-125	4	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732431
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344194001, 50344194002, 50344194003

METHOD BLANK: 3361424 Matrix: Water
Associated Lab Samples: 50344194001, 50344194002, 50344194003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	05/12/23 07:43	

LABORATORY CONTROL SAMPLE: 3361425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.3	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3361426 3361427

Parameter	Units	50343703003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.2	5.1	104	101	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 731475
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343391001, 50343391002

METHOD BLANK: 3356688 Matrix: Water
Associated Lab Samples: 50343391001, 50343391002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.038	05/11/23 10:58	
Calcium	mg/L	ND	1.0	0.16	05/11/23 10:58	
Lithium	mg/L	ND	0.010	0.0062	05/11/23 10:58	

LABORATORY CONTROL SAMPLE: 3356689

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	100	80-120	
Calcium	mg/L	10	10.1	101	80-120	
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3356690 3356691

Parameter	Units	50343388001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.041J	1	1	1.0	1.0	96	98	75-125	2	20	
Calcium	mg/L	32.8	10	10	41.6	42.1	87	93	75-125	1	20	
Lithium	mg/L	ND	1	1	0.98	1.0	98	101	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732537 | Analysis Method: EPA 6010
QC Batch Method: EPA 3010 | Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343749001, 50343749002, 50343920001, 50343920002, 50343920003, 50343920004

METHOD BLANK: 3361877 Matrix: Water
Associated Lab Samples: 50343749001, 50343749002, 50343920001, 50343920002, 50343920003, 50343920004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	05/12/23 14:48	
Calcium	mg/L	ND	1.0	0.088	05/12/23 14:48	
Lithium	mg/L	ND	0.010	0.0062	05/12/23 14:48	

LABORATORY CONTROL SAMPLE: 3361878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	102	80-120	
Calcium	mg/L	5	5.2	104	80-120	
Lithium	mg/L	1	1.1	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3361879 3361880

Parameter	Units	50343612001 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	1.0	1.0	100	100	75-125	0	20	
Calcium	mg/L	62.4	5	5	64.5	63.7	43	27	75-125	1	20	P6
Lithium	mg/L	ND	1	1	1.1	1.1	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732544
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001

METHOD BLANK: 3361915 Matrix: Water
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	05/17/23 08:20	
Calcium	mg/L	ND	1.0	0.088	05/17/23 08:20	
Lithium	mg/L	ND	0.010	0.0062	05/17/23 08:20	

LABORATORY CONTROL SAMPLE: 3361916

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.93	93	80-120	
Calcium	mg/L	5	4.7	93	80-120	
Lithium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3361917 3361918

Parameter	Units	50344056001 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	0.98	1.0	96	102	75-125	7	20	
Calcium	mg/L	14.7	5	5	19.2	20.1	90	109	75-125	5	20	
Lithium	mg/L	ND	1	1	1.0	1.1	103	108	75-125	5	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 733611
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344194001, 50344194002, 50344194003

METHOD BLANK: 3366881 Matrix: Water
Associated Lab Samples: 50344194001, 50344194002, 50344194003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.061	05/18/23 10:49	
Calcium	mg/L	ND	1.0	0.088	05/18/23 10:49	
Lithium	mg/L	ND	0.010	0.0062	05/18/23 10:49	

LABORATORY CONTROL SAMPLE: 3366882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.97	97	80-120	
Calcium	mg/L	5	5.0	101	80-120	
Lithium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3366883 3366884

Parameter	Units	50344194003 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	1.0	1.0	99	99	75-125	0	20	
Calcium	mg/L	39.4	5	5	44.0	44.2	92	96	75-125	0	20	
Lithium	mg/L	ND	1	1	1.0	1.1	105	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 730633
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343391001, 50343391002

METHOD BLANK: 3353694 Matrix: Water
Associated Lab Samples: 50343391001, 50343391002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000036	05/03/23 00:07	
Arsenic	mg/L	ND	0.0010	0.000053	05/03/23 00:07	
Barium	mg/L	ND	0.0010	0.000051	05/03/23 00:07	
Beryllium	mg/L	ND	0.00020	0.000028	05/03/23 00:07	
Cadmium	mg/L	ND	0.00020	0.0000090	05/03/23 00:07	
Chromium	mg/L	ND	0.0020	0.00013	05/03/23 00:07	
Cobalt	mg/L	ND	0.0010	0.000032	05/03/23 00:07	
Lead	mg/L	ND	0.0010	0.000034	05/03/23 00:07	
Molybdenum	mg/L	ND	0.0010	0.000048	05/03/23 00:07	
Selenium	mg/L	ND	0.0010	0.00023	05/03/23 00:07	
Thallium	mg/L	ND	0.0010	0.000033	05/03/23 00:07	

LABORATORY CONTROL SAMPLE: 3353695

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	0.037	94	80-120	
Barium	mg/L	0.04	0.039	98	80-120	
Beryllium	mg/L	0.04	0.039	97	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.040	101	80-120	
Cobalt	mg/L	0.04	0.041	102	80-120	
Lead	mg/L	0.04	0.040	101	80-120	
Molybdenum	mg/L	0.04	0.042	104	80-120	
Selenium	mg/L	0.04	0.040	99	80-120	
Thallium	mg/L	0.04	0.041	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3353696 3353697

Parameter	Units	50343172002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.000072J	0.04	0.04	0.041	0.042	103	105	75-125	2	20	
Arsenic	mg/L	0.00050J	0.04	0.04	0.038	0.039	93	95	75-125	2	20	
Barium	mg/L	0.11	0.04	0.04	0.14	0.15	94	101	75-125	2	20	
Beryllium	mg/L	ND	0.04	0.04	0.040	0.040	99	101	75-125	2	20	
Cadmium	mg/L	ND	0.04	0.04	0.038	0.039	95	97	75-125	2	20	
Chromium	mg/L	0.00032J	0.04	0.04	0.040	0.040	98	100	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3353696 3353697

Parameter	Units	50343172002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.000077J	0.04	0.04	0.039	0.040	97	100	75-125	3	20	
Lead	mg/L	0.000036J	0.04	0.04	0.040	0.041	101	102	75-125	1	20	
Molybdenum	mg/L	0.0046	0.04	0.04	0.046	0.047	103	105	75-125	1	20	
Selenium	mg/L	ND	0.04	0.04	0.039	0.041	98	101	75-125	3	20	
Thallium	mg/L	ND	0.04	0.04	0.041	0.042	103	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732043
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343749001, 50343749002, 50343920001, 50343920002, 50343920003, 50343920004, 50344057001, 50344057002, 50344057003, 50344058001

METHOD BLANK: 3359829 Matrix: Water
Associated Lab Samples: 50343749001, 50343749002, 50343920001, 50343920002, 50343920003, 50343920004, 50344057001, 50344057002, 50344057003, 50344058001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000036	05/10/23 17:06	
Arsenic	mg/L	ND	0.0010	0.000053	05/10/23 17:06	
Barium	mg/L	ND	0.0010	0.000051	05/10/23 17:06	
Beryllium	mg/L	ND	0.00020	0.000028	05/10/23 17:06	
Cadmium	mg/L	ND	0.00020	0.0000090	05/10/23 17:06	
Chromium	mg/L	ND	0.0020	0.00013	05/10/23 17:06	
Cobalt	mg/L	ND	0.0010	0.000032	05/10/23 17:06	
Lead	mg/L	ND	0.0010	0.000034	05/10/23 17:06	
Molybdenum	mg/L	ND	0.0010	0.000048	05/10/23 17:06	
Selenium	mg/L	ND	0.0010	0.00023	05/10/23 17:06	
Thallium	mg/L	ND	0.0010	0.000033	05/10/23 17:06	

LABORATORY CONTROL SAMPLE: 3359830

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	0.040	99	80-120	
Barium	mg/L	0.04	0.040	99	80-120	
Beryllium	mg/L	0.04	0.041	103	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	102	80-120	
Molybdenum	mg/L	0.04	0.041	102	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: 3359831 3359832

Parameter	Units	50343920002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00027J	0.04	0.04	0.042	0.042	105	105	75-125	0	20	
Arsenic	mg/L	0.0023	0.04	0.04	0.042	0.042	100	99	75-125	1	20	
Barium	mg/L	0.015	0.04	0.04	0.054	0.055	100	101	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.042	0.041	104	103	75-125	1	20	
Cadmium	mg/L	0.000013J	0.04	0.04	0.040	0.040	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3359831 3359832

Parameter	Units	50343920002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.00074J	0.04	0.04	0.042	0.042	103	103	75-125	1	20	
Cobalt	mg/L	0.00068J	0.04	0.04	0.041	0.041	101	100	75-125	0	20	
Lead	mg/L	0.00025J	0.04	0.04	0.041	0.041	102	102	75-125	0	20	
Molybdenum	mg/L	0.0031	0.04	0.04	0.045	0.044	104	103	75-125	1	20	
Selenium	mg/L	0.00028J	0.04	0.04	0.040	0.040	98	99	75-125	0	20	
Thallium	mg/L	ND	0.04	0.04	0.042	0.042	104	105	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 733693
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344194001, 50344194002, 50344194003

METHOD BLANK: 3367256 Matrix: Water
Associated Lab Samples: 50344194001, 50344194002, 50344194003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00013	05/17/23 23:30	
Arsenic	mg/L	ND	0.0010	0.00010	05/17/23 23:30	
Barium	mg/L	ND	0.0010	0.00014	05/17/23 23:30	
Beryllium	mg/L	ND	0.00020	0.000026	05/17/23 23:30	
Cadmium	mg/L	ND	0.00020	0.000054	05/17/23 23:30	
Chromium	mg/L	ND	0.0020	0.00020	05/17/23 23:30	
Cobalt	mg/L	ND	0.0010	0.000082	05/17/23 23:30	
Lead	mg/L	ND	0.0010	0.000080	05/17/23 23:30	
Molybdenum	mg/L	ND	0.0010	0.000072	05/17/23 23:30	
Selenium	mg/L	ND	0.0010	0.00044	05/17/23 23:30	
Thallium	mg/L	ND	0.0010	0.000072	05/17/23 23:30	

LABORATORY CONTROL SAMPLE: 3367257

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	96	80-120	
Barium	mg/L	0.04	0.039	98	80-120	
Beryllium	mg/L	0.04	0.040	99	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.041	102	80-120	
Cobalt	mg/L	0.04	0.041	101	80-120	
Lead	mg/L	0.04	0.040	101	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	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3367258 3367259

Parameter	Units	50344194002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.041	0.041	103	103	75-125	1	20	
Arsenic	mg/L	0.0030	0.04	0.04	0.038	0.038	88	87	75-125	0	20	
Barium	mg/L	0.048	0.04	0.04	0.087	0.090	99	106	75-125	3	20	
Beryllium	mg/L	0.00082	0.04	0.04	0.042	0.042	102	102	75-125	1	20	
Cadmium	mg/L	0.00010J	0.04	0.04	0.040	0.040	99	100	75-125	0	20	
Chromium	mg/L	0.0010J	0.04	0.04	0.043	0.043	105	105	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3367258 3367259

Parameter	Units	50344194002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.012	0.04	0.04	0.051	0.052	100	101	75-125	1	20	
Lead	mg/L	0.00028J	0.04	0.04	0.041	0.041	101	101	75-125	0	20	
Molybdenum	mg/L	0.00052J	0.04	0.04	0.036	0.036	89	90	75-125	1	20	
Selenium	mg/L	0.0029	0.04	0.04	0.029	0.028	65	62	75-125	4	20	M3
Thallium	mg/L	ND	0.04	0.04	0.040	0.041	101	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 730829
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343391001, 50343391002

METHOD BLANK: 3354257 Matrix: Water
Associated Lab Samples: 50343391001, 50343391002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/01/23 17:04	

LABORATORY CONTROL SAMPLE: 3354258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	278	93	80-120	

SAMPLE DUPLICATE: 3354259

Parameter	Units	50343399002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	10400	10500	1	10	

SAMPLE DUPLICATE: 3354260

Parameter	Units	50343477002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	737	755	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 731629
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343749001, 50343749002

METHOD BLANK: 3357519 Matrix: Water
Associated Lab Samples: 50343749001, 50343749002

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

LABORATORY CONTROL SAMPLE: 3357520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	268	89	80-120	

SAMPLE DUPLICATE: 3357521

Parameter	Units	50343741002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	334	322	4	10	

SAMPLE DUPLICATE: 3357522

Parameter	Units	50343890001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3600	3590	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732048 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343920001, 50343920002, 50343920003

METHOD BLANK: 3359845 Matrix: Water
Associated Lab Samples: 50343920001, 50343920002, 50343920003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/06/23 08:54	

LABORATORY CONTROL SAMPLE: 3359846

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

SAMPLE DUPLICATE: 3359847

Parameter	Units	50343808014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2000	1990	0	10	

SAMPLE DUPLICATE: 3359848

Parameter	Units	50343808015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1980	1980	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732205
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343920004

METHOD BLANK: 3360500 Matrix: Water
Associated Lab Samples: 50343920004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/08/23 13:59	

LABORATORY CONTROL SAMPLE: 3360501

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	294	98	80-120	

SAMPLE DUPLICATE: 3360502

Parameter	Units	50344177020 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	385	394	2	10	

SAMPLE DUPLICATE: 3360503

Parameter	Units	50343925001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	728	725	0	10	

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REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732605 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001

METHOD BLANK: 3362209 Matrix: Water
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/10/23 08:26	

LABORATORY CONTROL SAMPLE: 3362210

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

SAMPLE DUPLICATE: 3362211

Parameter	Units	50344040008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1730	1760	1	10	

SAMPLE DUPLICATE: 3362212

Parameter	Units	50344053001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	662	664	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732851 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344194001, 50344194002, 50344194003

METHOD BLANK: 3363581 Matrix: Water
Associated Lab Samples: 50344194001, 50344194002, 50344194003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	05/11/23 08:26	

LABORATORY CONTROL SAMPLE: 3363582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	80-120	

SAMPLE DUPLICATE: 3363583

Parameter	Units	50344228001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	717	707	1	10	

SAMPLE DUPLICATE: 3363584

Parameter	Units	50344229002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2270	2290	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 732519
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343391001, 50343391002

SAMPLE DUPLICATE: 3361812

Parameter	Units	50343347003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	1	2	H3

SAMPLE DUPLICATE: 3361813

Parameter	Units	50344061002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.1	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 733299
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343749001, 50343749002

SAMPLE DUPLICATE: 3365620

Parameter	Units	50343743005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.1	8.1	0	2	H3

SAMPLE DUPLICATE: 3365621

Parameter	Units	50343791001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 733791
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50343920001, 50343920002, 50343920003, 50343920004

SAMPLE DUPLICATE: 3367533

Parameter	Units	50343791002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.3	0	2	H3

SAMPLE DUPLICATE: 3367534

Parameter	Units	50343791003 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: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 733797
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344057001, 50344057002, 50344057003, 50344058001

SAMPLE DUPLICATE: 3367543

Parameter	Units	50344013014 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.4	7.4	0	2	H3

SAMPLE DUPLICATE: 3367544

Parameter	Units	50344022001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

QC Batch: 735024
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50344194001, 50344194002, 50344194003

SAMPLE DUPLICATE: 3373164

Parameter	Units	50343888001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.6	7.7	0	2	H3

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QUALIFIERS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

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	Closing CRD 132%. Sample negative for Hg
2d	Closing CRDL 132%. Sample negative for Hg.
C0	Result confirmed by second analysis.
E	Analyte concentration exceeded the calibration range. The reported result is estimated.
F5	The recovery of the analyte in the CRDL standard (also known as the reporting limit verification) did not meet the acceptance criteria.
H3	Sample was received or analysis requested beyond the recognized method holding time.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343391001	**GAMW-46-042723**	EPA 9056	732229		
50343391002	**GAMW-46B-042723**	EPA 9056	732229		
50343749001	**GAMW-42-050223**	EPA 9056	732629		
50343749002	**GAMW-42B-050223**	EPA 9056	732629		
50343920001	**GAMW-42C-050323**	EPA 9056	732632		
50343920002	**GAMW-43-050323**	EPA 9056	732632		
50343920003	**GAMW-43B-050323**	EPA 9056	732632		
50343920004	**FD-05-050323**	EPA 9056	732632		
50344057001	**GAMW-44-050423**	EPA 9056	733242		
50344057002	**GAMW-44B-050423**	EPA 9056	733242		
50344057003	**GAMW-57-050423**	EPA 9056	733242		
50344058001	**FB-05-050423**	EPA 9056	733242		
50344194001	**GAMW-57B-050523**	EPA 9056	733242		
50344194002	**GAMW-58-050523**	EPA 9056	733242		
50344194003	**GAMW-58B-050523**	EPA 9056	733242		
50343391001	**GAMW-46-042723**	EPA 3010	731475	EPA 6010	732891
50343391002	**GAMW-46B-042723**	EPA 3010	731475	EPA 6010	732891
50343749001	**GAMW-42-050223**	EPA 3010	732537	EPA 6010	733200
50343749002	**GAMW-42B-050223**	EPA 3010	732537	EPA 6010	733200
50343920001	**GAMW-42C-050323**	EPA 3010	732537	EPA 6010	733200
50343920002	**GAMW-43-050323**	EPA 3010	732537	EPA 6010	733200
50343920003	**GAMW-43B-050323**	EPA 3010	732537	EPA 6010	733200
50343920004	**FD-05-050323**	EPA 3010	732537	EPA 6010	733200
50344057001	**GAMW-44-050423**	EPA 3010	732544	EPA 6010	733777
50344057002	**GAMW-44B-050423**	EPA 3010	732544	EPA 6010	733777
50344057003	**GAMW-57-050423**	EPA 3010	732544	EPA 6010	733777
50344058001	**FB-05-050423**	EPA 3010	732544	EPA 6010	733777
50344194001	**GAMW-57B-050523**	EPA 3010	733611	EPA 6010	734355
50344194002	**GAMW-58-050523**	EPA 3010	733611	EPA 6010	734355
50344194003	**GAMW-58B-050523**	EPA 3010	733611	EPA 6010	734355
50343391001	**GAMW-46-042723**	EPA 200.2	730633	EPA 6020	730839
50343391002	**GAMW-46B-042723**	EPA 200.2	730633	EPA 6020	730839
50343749001	**GAMW-42-050223**	EPA 200.2	732043	EPA 6020	732222
50343749002	**GAMW-42B-050223**	EPA 200.2	732043	EPA 6020	732222
50343920001	**GAMW-42C-050323**	EPA 200.2	732043	EPA 6020	732222
50343920002	**GAMW-43-050323**	EPA 200.2	732043	EPA 6020	732222
50343920003	**GAMW-43B-050323**	EPA 200.2	732043	EPA 6020	732222
50343920004	**FD-05-050323**	EPA 200.2	732043	EPA 6020	732222
50344057001	**GAMW-44-050423**	EPA 200.2	732043	EPA 6020	732222
50344057002	**GAMW-44B-050423**	EPA 200.2	732043	EPA 6020	732222
50344057003	**GAMW-57-050423**	EPA 200.2	732043	EPA 6020	732222
50344058001	**FB-05-050423**	EPA 200.2	732043	EPA 6020	732222
50344194001	**GAMW-57B-050523**	EPA 200.2	733693	EPA 6020	734226
50344194002	**GAMW-58-050523**	EPA 200.2	733693	EPA 6020	734226

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50344194003	**GAMW-58B-050523**	EPA 200.2	733693	EPA 6020	734226
50343391001	**GAMW-46-042723**	EPA 7470	731912	EPA 7470	732271
50343391002	**GAMW-46B-042723**	EPA 7470	731912	EPA 7470	732271
50343749001	**GAMW-42-050223**	EPA 7470	731913	EPA 7470	732526
50343749002	**GAMW-42B-050223**	EPA 7470	731913	EPA 7470	732526
50343920001	**GAMW-42C-050323**	EPA 7470	731917	EPA 7470	732578
50343920002	**GAMW-43-050323**	EPA 7470	731917	EPA 7470	732578
50343920003	**GAMW-43B-050323**	EPA 7470	731917	EPA 7470	732578
50343920004	**FD-05-050323**	EPA 7470	731917	EPA 7470	732578
50344057001	**GAMW-44-050423**	EPA 7470	732425	EPA 7470	732774
50344057002	**GAMW-44B-050423**	EPA 7470	732425	EPA 7470	732774
50344057003	**GAMW-57-050423**	EPA 7470	732425	EPA 7470	732774
50344058001	**FB-05-050423**	EPA 7470	732425	EPA 7470	732774
50344194001	**GAMW-57B-050523**	EPA 7470	732431	EPA 7470	733096
50344194002	**GAMW-58-050523**	EPA 7470	732431	EPA 7470	733096
50344194003	**GAMW-58B-050523**	EPA 7470	732431	EPA 7470	733096
50343391001	**GAMW-46-042723**	SM 2540C	730829		
50343391002	**GAMW-46B-042723**	SM 2540C	730829		
50343749001	**GAMW-42-050223**	SM 2540C	731629		
50343749002	**GAMW-42B-050223**	SM 2540C	731629		
50343920001	**GAMW-42C-050323**	SM 2540C	732048		
50343920002	**GAMW-43-050323**	SM 2540C	732048		
50343920003	**GAMW-43B-050323**	SM 2540C	732048		
50343920004	**FD-05-050323**	SM 2540C	732205		
50344057001	**GAMW-44-050423**	SM 2540C	732605		
50344057002	**GAMW-44B-050423**	SM 2540C	732605		
50344057003	**GAMW-57-050423**	SM 2540C	732605		
50344058001	**FB-05-050423**	SM 2540C	732605		
50344194001	**GAMW-57B-050523**	SM 2540C	732851		
50344194002	**GAMW-58-050523**	SM 2540C	732851		
50344194003	**GAMW-58B-050523**	SM 2540C	732851		
50343391001	**GAMW-46-042723**	SM 4500-H+B	732519		
50343391002	**GAMW-46B-042723**	SM 4500-H+B	732519		
50343749001	**GAMW-42-050223**	SM 4500-H+B	733299		
50343749002	**GAMW-42B-050223**	SM 4500-H+B	733299		
50343920001	**GAMW-42C-050323**	SM 4500-H+B	733791		
50343920002	**GAMW-43-050323**	SM 4500-H+B	733791		
50343920003	**GAMW-43B-050323**	SM 4500-H+B	733791		
50343920004	**FD-05-050323**	SM 4500-H+B	733791		
50344057001	**GAMW-44-050423**	SM 4500-H+B	733797		
50344057002	**GAMW-44B-050423**	SM 4500-H+B	733797		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343391

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50344057003	**GAMW-57-050423**	SM 4500-H+B	733797		
50344058001	**FB-05-050423**	SM 4500-H+B	733797		
50344194001	**GAMW-57B-050523**	SM 4500-H+B	735024		
50344194002	**GAMW-58-050523**	SM 4500-H+B	735024		
50344194003	**GAMW-58B-050523**	SM 4500-H+B	735024		

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CHAIN-OF-CUSTODY / Analytical Request F

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

WO# : 50343391

50343391

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	Regulatory Agency	
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO		
Merrillville, IN 46410			Sarah Gilles	Address:			
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:			
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,	State / Location	
Requested Due Date:	10 day TAT	Project #:	3140478 9.011	Pace Profile #:	9045-1		IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
37	[redacted]	WT																x	x	x	x		
38	[redacted]	WT																x	x	x	x		
39	[redacted]	WT																x	x	x	x		
40	GAMW-46 – 042723	WT	G			4/27/23	1225		3	2		1						x	x	x	x		001
41	GAMW-46B – 042723	WT	G			4/27/23	1355		3	2		1						x	x	x	x		002
42	[redacted]	WT																x	x	x	x		
43	[redacted]	WT																x	x	x	x		
44	[redacted]	WT																x	x	x	x		
45	[redacted]	WT																x	x	x	x		
46	[redacted]	WT																x	x	x	x		
47	[redacted]	WT																x	x	x	x		
48	[redacted]	WT																x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	[redacted]	4/27/23	1600	[redacted]						
	[redacted] for	4/27	950	[redacted]	4/28	850	0.7	Y	Y	Y

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:	[redacted]					
SIGNATURE of SAMPLER:	[redacted]	DATE Signed: 4/27/23				

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 04/28/23 1000 SMK

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):** 0.7/0.7 | | | |

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

5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER				Matrix	Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																											Red	Yellow	Green	Black
COC Line Item	WGFU	DI	R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																																
2																																
3																																
4																		1	1	1								5	✓			
5																		↓	↓	↓								4	✓			
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

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CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 50343749

50343749

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO		
	Merrillville, IN 46410		Sarah Gilles	Address:		Regulatory Agency	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:			
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,	State / Location	
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1		IN

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
13	GAMW-42 – 050223	WT	G			5/2/23	1035		3	2		1							x	x	x	x		UC1
14	GAMW-42B – 050223	WT	G			5/2/23	1250		3	2		1							x	x	x	x		UC2
15	[redacted]	WT																	x	x	x	x		
16	[redacted]	WT																	x	x	x	x		
17	[redacted]	WT																	x	x	x	x		
18	[redacted]	WT																	x	x	x	x		
19	[redacted]	WT																	x	x	x	x		
20	[redacted]	WT																	x	x	x	x		
21	GAMW-51B	WT																	x	x	x	x		
22	[redacted]	WT																	x	x	x	x		
23	GAMW-57B	WT																	x	x	x	x		
24	[redacted]	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	WSP	5/2/23	1530	Fedex						
	Fedex	5/3/23	09:30		5/3/23	0930	1.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 5/2/23

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

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/3/23 1430 IL

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):** 1.0/1.0 | | | |
   (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	**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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER							
		MeOH (only)																												
		SBS																												
		DI																												
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																	2	1	2		1								✓	✓		
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	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

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CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 50343920

50343920

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	
Merrillville, IN 46410	Sarah Gilles	Address:	Regulatory Agency
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-1	IN

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
13	[redacted]	WT																	x	x	x	x		
14	[redacted]	WT																	x	x	x	x		
15	GAMW-42C - 050323	WT	G			5/3/23	1100		3	2		1							x	x	x	x		GW1
16	GAMW-43 - 050323	WT	G			5/3/23	1300		3	2		1							x	x	x	x		GW2
17	GAMW-43B - 050323	WT	G			5/3/23	1425		3	2		1							x	x	x	x		GW3
18	[redacted]	WT																	x	x	x	x		
19	[redacted]	WT																	x	x	x	x		
20	[redacted]	WT																	x	x	x	x		
21	[redacted]	WT																	x	x	x	x		
22	[redacted]	WT																	x	x	x	x		
23	[redacted]	WT																	x	x	x	x		
24	[redacted]	WT																	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**48 HOUR HOLD- Nitrate 353.2	WSP	5/3/23	1630	FEDEX			
	FEDEX	5/4/23	0925		5/4/23	0925	1.8

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:		DATE Signed: 5/3/23	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:						

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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 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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 3140789.011	Pace Profile #: 9045-1	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
61	[redacted] FD-05-050323	WT				5/3/23	1200		3	2		1							X	X	X	X		CL4
62	[redacted]																								
63	[redacted]																								
64	[redacted]																								
65	[redacted]																								
66	[redacted]																								
67	[redacted]																								
68	[redacted]																								
69	[redacted]																								
70	[redacted]																								
71	[redacted]																								
72	[redacted]																								

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**48 HOUR HOLD- Nitrate 353.2	WSP	5/3/23	1630	FEDEX			
	FEDEX	5/4/23	0825	[signature]	5/4/23	0825	1.8 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GUZMAN

SIGNATURE of SAMPLER: [signature] DATE Signed: 5/3/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MR 5/4/23 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):** 1.8/1.8 | | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

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

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:		✓	

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																
2																																
3																	1	1	1									WS	✓			
4																	↓	↓	↓									↓	↓			
5																	↓	↓	↓									↓	↓			
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE ____ of ____

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER				Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black
COC Line Item	WGFU	SBS / DI / R	DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit			HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																	I	I	I													
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	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50344057

50344057

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
13	[redacted]	WT																	X	X	X	X	
14	[redacted]	WT																	X	X	X	X	
15	GAMW-42C	WT																	X	X	X	X	
16	[redacted]	WT																	X	X	X	X	
17	[redacted]	WT																	X	X	X	X	
18	GAMW-44 – 050423	WT	G			5/4/23	1105		3	2		1							X	X	X	X	Col
19	GAMW-44B – 050423	WT	G			5/4/23	1225		3	2		1							X	X	X	X	Col 2
20	[redacted]	WT																	X	X	X	X	
21	[redacted]	WT																	X	X	X	X	
22	GAMW-57 – 050423	WT	G			5/4/23	1355		3	2		1							X	X	X	X	Col 3
23	[redacted]	WT																	X	X	X	X	
24	[redacted]	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	WSP	5/4/23	1630	Fedex						
	Fedex	5/5/23	0850		5/5/23	0850	3.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 5/4/23

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/5/23 1040 IL

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):** 3.0/3.0 | | | |
   (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:			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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER							
		MeOH (only)	SBS	DI																										
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																														
2																														
3																														
4																														
5																														
6																	↓	↓	↓									✓			
7																	↓	↓	↓									✓			
8																														
9																														
10																	1	1	1									✓			
11																														
12																														

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

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CHAIN-OF-CUSTODY / Analytical Request Do

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WO# : 50344058

50344058

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
61	FB-05 -080423	WT	G			5/4/23	1440		3	2		1							x	x	x	x	
62																							
63																							
64																							
65																							
66																							
67																							
68																							
69																							
70																							
71																							
72																							

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	WSP	5/4/23	1630	Fedex						
	Fedex	5/5/23	0850	DL	5/5/23	0850	3.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: K GUZMAN

SIGNATURE of SAMPLER: [signature]

DATE Signed: 5/4/23

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

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/5/23 1040 IL

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):** 3.0/3.0 | | | |
(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.** **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:**		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER							
		MeOH (only) SBS DI																												
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black 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	BG1T	1L Na Thiosulfate clear glass	AG3S	250mL H2SO4 amber glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	AG3SF	250mL H2SO4 amb glass -field filtered
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	AG3U	250mL unpres amber glass
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	AG3C	250mL NaOH amber 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				
CG3F	250mL clear glass HCl, Field Filter				
BG1H	1L HCl clear glass				
BG1S	1L H2SO4 clear glass				

Plastic

BP1B	1L NaOH plastic	BP3U	250mL unpreserved plastic
BP1N	1L HNO3 plastic	BP3S	250mL H2SO4 plastic
BP1S	1L H2SO4 plastic	BP3Z	250mL NaOH, ZnAc 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		

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# : 50344194

50344194

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lytical Request Document

ENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:	Section B Required Project Information:	Invoice Information:
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177
Address: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO
Merrillville, IN 46410	Sarah Gilles	Address:
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)782-2433 Fax	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
13	[redacted]	WT																	X	X	X	X		
14	[redacted]	WT																	X	X	X	X		
15	[redacted]	WT																	X	X	X	X		
16	[redacted]	WT																	X	X	X	X		
17	[redacted]	WT																	X	X	X	X		
18	[redacted]	WT																	X	X	X	X		
19	[redacted]	WT																	X	X	X	X		
20	[redacted]	WT																	X	X	X	X		
21	[redacted]	WT																	X	X	X	X		
22	[redacted]	WT																	X	X	X	X		
23	GAMW-57B — 050523	WT	G			5/5/23	1015		3	2		1						X	X	X	X		001
24	GAMW-58 — 050523	WT	G			5/5/23	1150		3	2		1						X	X	X	X		002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**48 HOUR HOLD- Nitrate 353.2	WSP	5/5/23	1500	Fed ex						
	Fed ex			Marcus Winburn	5/6/23	0015	1.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [redacted]

SIGNATURE of SAMPLER: [redacted] DATE Signed: 5/5/23

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

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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 Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency: | State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
25	GAMW-58B — 050523	WT	G			5/5/23	1310		3	2		1							x	x	x	x		003
26	[redacted]	WT																	x	x	x	x		
27	GAMW-59B	WT																	x	x	x	x		
28	[redacted]	WT																	x	x	x	x		
29	[redacted]	WT																	x	x	x	x		
30	[redacted]	WT																	x	x	x	x		
31	[redacted]	WT																	x	x	x	x		
32	[redacted]	WT																	x	x	x	x		
33	[redacted]	WT																	x	x	x	x		
34	[redacted]	WT																	x	x	x	x		
35	[redacted]	WT																	x	x	x	x		
36	[redacted]	WT																	x	x	x	x		

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**48 HOUR HOLD- Nitrate 353.2	WSP / Fed ex	5/5/23	1500	Fed ex						
	Fed ex			Marcus Winslow	5/6/23	0615	1.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: K. Gardner

SIGNATURE of SAMPLER: [signature] DATE Signed: 5/5/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/6/23 1345-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):** 1.0 | 1.0 **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

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

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**	✓		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	**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:

COC PAGE 1 of 2

Sample Container Count

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

		MeOH (only)		VIALS						AMBER GLASS							PLASTIC									OTHER							
			SBS																											Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
			DI																											Red	Yellow	Green	Black
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																	1	1	1									WT	✓			
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
1	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
GFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
G3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
G3F	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

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 2

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER						Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																													Red	Yellow	Green	Black
		DI																																
CCC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9		
1																	1	1	1									ST	✓					
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	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
VGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
VGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
GFU	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
G3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
G1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
G1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

June 19, 2023

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

RE: Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between April 28, 2023 and May 06, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

Revised report replaces report dated 06/13/23. Samples moved per client request. 06/19/23tms

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

Sincerely,

Tina Sayer

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

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
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 #: PA014572018-1
New Hampshire/TNI Certification #: 297617
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 #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
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
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50343389001	**GAMW-46-042723**	Water	04/27/23 12:25	04/28/23 08:50
50343389002	**GAMW-46B-042723**	Water	04/27/23 13:55	04/28/23 08:50
50343750001	**GAMW-42-050223**	Water	05/02/23 10:35	05/03/23 09:30
50343750002	**GAMW-42B-050223**	Water	05/02/23 12:50	05/03/23 09:30
50343918001	**GAMW-42C-050323**	Water	05/03/23 11:00	05/04/23 09:25
50343918002	**GAMW-43-050323**	Water	05/03/23 13:00	05/04/23 09:25
50343918003	**GAMW-43B-050323**	Water	05/03/23 14:25	05/04/23 09:25
50343918004	**FD-05-050323**	Water	05/03/23 12:00	05/04/23 09:25
50344059001	**GAMW-44-050423**	Water	05/04/23 11:05	05/05/23 08:50
50344059002	**GAMW-44B-050423**	Water	05/04/23 12:25	05/05/23 08:50
50344059003	**GAMW-57-050423**	Water	05/04/23 13:55	05/05/23 08:50
50344059004	**FB-05-050423**	Water	05/04/23 14:10	05/05/23 08:50
50344195001	**GAMW-57B-050523**	Water	05/05/23 10:15	05/06/23 09:15
50344195002	**GAMW-58-050523**	Water	05/05/23 11:50	05/06/23 09:15
50344195003	**GAMW-58B-050523**	Water	05/05/23 13:10	05/06/23 09:15

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50343389001	GAMW-46-042723	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343389002	GAMW-46B-042723	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343750001	GAMW-42-050223	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343750002	GAMW-42B-050223	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343918001	GAMW-42C-050323	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343918002	GAMW-43-050323	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343918003	GAMW-43B-050323	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50343918004	FD-05-050323	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50344059001	GAMW-44-050423	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50344059002	GAMW-44B-050423	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50344059003	GAMW-57-050423	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50344059004	FB-05-050423	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50344195001	GAMW-57B-050523	EPA 903.1	JLJ	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50344195002	**GAMW-58-050523**	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50344195003	**GAMW-58B-050523**	EPA 903.1	JLJ	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343389001	**GAMW-46-042723**					
EPA 903.1	Radium-226	-0.0552 ± 0.324 (0.723) C:NA T:92%	pCi/L		05/19/23 14:24	
EPA 904.0	Radium-228	-0.359 ± 0.389 (0.953) C:79% T:87%	pCi/L		05/12/23 15:55	
Total Radium Calculation	Total Radium	0.000 ± 0.713 (1.68)	pCi/L		05/22/23 12:37	
50343389002	**GAMW-46B-042723**					
EPA 903.1	Radium-226	-0.0629 ± 0.565 (1.14) C:NA T:90%	pCi/L		05/19/23 14:24	
EPA 904.0	Radium-228	0.503 ± 0.443 (0.903) C:77% T:85%	pCi/L		05/12/23 15:55	
Total Radium Calculation	Total Radium	0.503 ± 1.01 (2.04)	pCi/L		05/22/23 12:37	
50343750001	**GAMW-42-050223**					
EPA 903.1	Radium-226	-0.0465 ± 0.376 (0.775) C:NA T:95%	pCi/L		06/02/23 15:42	
EPA 904.0	Radium-228	0.167 ± 0.336 (0.740) C:81% T:84%	pCi/L		05/24/23 15:06	
Total Radium Calculation	Total Radium	0.167 ± 0.712 (1.52)	pCi/L		06/05/23 17:37	
50343750002	**GAMW-42B-050223**					
EPA 903.1	Radium-226	0.593 ± 0.441 (0.580) C:NA T:97%	pCi/L		06/02/23 15:42	
EPA 904.0	Radium-228	0.386 ± 0.359 (0.727) C:80% T:82%	pCi/L		05/24/23 15:06	
Total Radium Calculation	Total Radium	0.979 ± 0.800 (1.31)	pCi/L		06/05/23 17:37	

REPORT OF LABORATORY ANALYSIS

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Indianapolis, IN 46268
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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50343918001	**GAMW-42C-050323**					
EPA 903.1	Radium-226	1.10 ± 0.565 (0.696) C:NA T:94%	pCi/L		06/05/23 13:27	
EPA 904.0	Radium-228	0.595 ± 0.356 (0.671) C:86% T:93%	pCi/L		05/23/23 11:54	
Total Radium Calculation	Total Radium	1.70 ± 0.921 (1.37)	pCi/L		06/05/23 16:13	
50343918002	**GAMW-43-050323**					
EPA 903.1	Radium-226	-0.0453 ± 0.295 (0.639) C:NA T:94%	pCi/L		06/05/23 13:47	
EPA 904.0	Radium-228	0.0615 ± 0.326 (0.742) C:86% T:81%	pCi/L		05/23/23 11:54	
Total Radium Calculation	Total Radium	0.0615 ± 0.621 (1.38)	pCi/L		06/05/23 16:13	
50343918003	**GAMW-43B-050323**					
EPA 903.1	Radium-226	0.000 ± 0.281 (0.608) C:NA T:91%	pCi/L		06/05/23 13:47	
EPA 904.0	Radium-228	0.552 ± 0.359 (0.689) C:88% T:88%	pCi/L		05/23/23 11:54	
Total Radium Calculation	Total Radium	0.552 ± 0.640 (1.30)	pCi/L		06/05/23 16:13	
50343918004	**FD-05-050323**					
EPA 903.1	Radium-226	-0.134 ± 0.264 (0.632) C:NA T:93%	pCi/L		06/05/23 13:47	
EPA 904.0	Radium-228	0.0621 ± 0.377 (0.855) C:86% T:84%	pCi/L		05/23/23 11:54	
Total Radium Calculation	Total Radium	0.0621 ± 0.641 (1.49)	pCi/L		06/05/23 16:13	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50344059001	**GAMW-44-050423**					
EPA 903.1	Radium-226	0.200 ± 0.392 (0.716) C:NA T:98%	pCi/L		05/24/23 14:26	
EPA 904.0	Radium-228	0.703 ± 0.369 (0.631) C:80% T:83%	pCi/L		05/22/23 12:07	
Total Radium Calculation	Total Radium	0.903 ± 0.761 (1.35)	pCi/L		06/05/23 17:55	
50344059002	**GAMW-44B-050423**					
EPA 903.1	Radium-226	-0.812 ± 0.568 (1.44) C:NA T:96%	pCi/L		05/24/23 14:26	
EPA 904.0	Radium-228	0.359 ± 0.340 (0.692) C:77% T:91%	pCi/L		05/22/23 12:07	
Total Radium Calculation	Total Radium	0.359 ± 0.908 (2.13)	pCi/L		06/05/23 17:55	
50344059003	**GAMW-57-050423**					
EPA 903.1	Radium-226	0.556 ± 0.514 (0.748) C:NA T:92%	pCi/L		05/24/23 14:26	
EPA 904.0	Radium-228	-0.231 ± 0.345 (0.859) C:82% T:73%	pCi/L		05/22/23 12:07	
Total Radium Calculation	Total Radium	0.556 ± 0.859 (1.61)	pCi/L		06/05/23 17:55	
50344059004	**FB-05-050423**					
EPA 903.1	Radium-226	0.191 ± 0.331 (0.592) C:NA T:92%	pCi/L		05/24/23 14:38	
EPA 904.0	Radium-228	0.145 ± 0.323 (0.716) C:83% T:86%	pCi/L		05/22/23 12:07	
Total Radium Calculation	Total Radium	0.336 ± 0.654 (1.31)	pCi/L		06/05/23 17:55	

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SUMMARY OF DETECTION

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50344195001	**GAMW-57B-050523**					
EPA 903.1	Radium-226	0.0435 ± 0.307 (0.613) C:NA T:92%	pCi/L		06/13/23 14:28	
EPA 904.0	Radium-228	0.188 ± 0.357 (0.784) C:77% T:92%	pCi/L		05/31/23 15:20	
Total Radium Calculation	Total Radium	0.232 ± 0.664 (1.40)	pCi/L		06/13/23 15:31	
50344195002	**GAMW-58-050523**					
EPA 903.1	Radium-226	-0.0963 ± 0.267 (0.631) C:NA T:88%	pCi/L		06/13/23 14:28	
EPA 904.0	Radium-228	0.482 ± 0.375 (0.745) C:83% T:88%	pCi/L		05/31/23 15:18	
Total Radium Calculation	Total Radium	0.482 ± 0.642 (1.38)	pCi/L		06/13/23 15:31	
50344195003	**GAMW-58B-050523**					
EPA 903.1	Radium-226	0.000 ± 0.356 (0.740) C:NA T:85%	pCi/L		06/13/23 14:28	
EPA 904.0	Radium-228	-0.288 ± 0.312 (0.783) C:78% T:85%	pCi/L		05/31/23 14:54	
Total Radium Calculation	Total Radium	0.000 ± 0.668 (1.52)	pCi/L		06/13/23 15:31	

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: NiSource_WSP Golder
Date: June 19, 2023

General Information:
15 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:

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: NiSource_WSP Golder
Date: June 19, 2023

General Information:
15 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:

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PROJECT NARRATIVE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: NiSource_WSP Golder
Date: June 19, 2023

General Information:
15 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: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-46-042723 **Lab ID: 50343389001** Collected: 04/27/23 12:25 Received: 04/28/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0552 ± 0.324 (0.723) C:NA T:92%**	pCi/L	05/19/23 14:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.359 ± 0.389 (0.953) C:79% T:87%**	pCi/L	05/12/23 15:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000 ± 0.713 (1.68)**	pCi/L	05/22/23 12:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-46B-042723 **Lab ID: 50343389002** Collected: 04/27/23 13:55 Received: 04/28/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0629 ± 0.565 (1.14) C:NA T:90%**	pCi/L	05/19/23 14:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.503 ± 0.443 (0.903) C:77% T:85%**	pCi/L	05/12/23 15:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.503 ± 1.01 (2.04)**	pCi/L	05/22/23 12:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-42-050223 **Lab ID: 50343750001** Collected: 05/02/23 10:35 Received: 05/03/23 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	**-0.0465 ± 0.376 (0.775) C:NA T:95%**	pCi/L	06/02/23 15:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.167 ± 0.336 (0.740) C:81% T:84%**	pCi/L	05/24/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.167 ± 0.712 (1.52)**	pCi/L	06/05/23 17:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-42B-050223 **Lab ID: 50343750002** Collected: 05/02/23 12:50 Received: 05/03/23 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	**0.593 ± 0.441 (0.580) C:NA T:97%**	pCi/L	06/02/23 15:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.386 ± 0.359 (0.727) C:80% T:82%**	pCi/L	05/24/23 15:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.979 ± 0.800 (1.31)**	pCi/L	06/05/23 17:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-42C-050323 **Lab ID: 50343918001** Collected: 05/03/23 11:00 Received: 05/04/23 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	**1.10 ± 0.565 (0.696) C:NA T:94%**	pCi/L	06/05/23 13:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.595 ± 0.356 (0.671) C:86% T:93%**	pCi/L	05/23/23 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.70 ± 0.921 (1.37)**	pCi/L	06/05/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-43-050323 **Lab ID: 50343918002** Collected: 05/03/23 13:00 Received: 05/04/23 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	**-0.0453 ± 0.295 (0.639) C:NA T:94%**	pCi/L	06/05/23 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0615 ± 0.326 (0.742) C:86% T:81%**	pCi/L	05/23/23 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0615 ± 0.621 (1.38)**	pCi/L	06/05/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-43B-050323 **Lab ID: 50343918003** Collected: 05/03/23 14:25 Received: 05/04/23 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 ± 0.281 (0.608) C:NA T:91%**	pCi/L	06/05/23 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.552 ± 0.359 (0.689) C:88% T:88%**	pCi/L	05/23/23 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.552 ± 0.640 (1.30)**	pCi/L	06/05/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: FD-05-050323 **Lab ID: 50343918004** Collected: 05/03/23 12:00 Received: 05/04/23 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	**-0.134 ± 0.264 (0.632) C:NA T:93%**	pCi/L	06/05/23 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0621 ± 0.377 (0.855) C:86% T:84%**	pCi/L	05/23/23 11:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0621 ± 0.641 (1.49)**	pCi/L	06/05/23 16:13	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-44-050423 **Lab ID: 50344059001** Collected: 05/04/23 11:05 Received: 05/05/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.200 ± 0.392 (0.716) C:NA T:98%**	pCi/L	05/24/23 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.703 ± 0.369 (0.631) C:80% T:83%**	pCi/L	05/22/23 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.903 ± 0.761 (1.35)**	pCi/L	06/05/23 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-44B-050423 **Lab ID: 50344059002** Collected: 05/04/23 12:25 Received: 05/05/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.812 ± 0.568 (1.44) C:NA T:96%**	pCi/L	05/24/23 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.359 ± 0.340 (0.692) C:77% T:91%**	pCi/L	05/22/23 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.359 ± 0.908 (2.13)**	pCi/L	06/05/23 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-57-050423 **Lab ID: 50344059003** Collected: 05/04/23 13:55 Received: 05/05/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.556 ± 0.514 (0.748) C:NA T:92%**	pCi/L	05/24/23 14:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.231 ± 0.345 (0.859) C:82% T:73%**	pCi/L	05/22/23 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.556 ± 0.859 (1.61)**	pCi/L	06/05/23 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: FB-05-050423 **Lab ID: 50344059004** Collected: 05/04/23 14:10 Received: 05/05/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.191 ± 0.331 (0.592) C:NA T:92%**	pCi/L	05/24/23 14:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.145 ± 0.323 (0.716) C:83% T:86%**	pCi/L	05/22/23 12:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.336 ± 0.654 (1.31)**	pCi/L	06/05/23 17:55	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-57B-050523 **Lab ID: 50344195001** Collected: 05/05/23 10:15 Received: 05/06/23 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	**0.0435 ± 0.307 (0.613) C:NA T:92%**	pCi/L	06/13/23 14:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.188 ± 0.357 (0.784) C:77% T:92%**	pCi/L	05/31/23 15:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.232 ± 0.664 (1.40)**	pCi/L	06/13/23 15:31	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-58-050523 **Lab ID: 50344195002** Collected: 05/05/23 11:50 Received: 05/06/23 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	**-0.0963 ± 0.267 (0.631) C:NA T:88%**	pCi/L	06/13/23 14:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.482 ± 0.375 (0.745) C:83% T:88%**	pCi/L	05/31/23 15:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.482 ± 0.642 (1.38)**	pCi/L	06/13/23 15:31	7440-14-4	

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(317)228-3100

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Sample: GAMW-58B-050523 **Lab ID: 50344195003** Collected: 05/05/23 13:10 Received: 05/06/23 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	**0.000 ± 0.356 (0.740) C:NA T:85%**	pCi/L	06/13/23 14:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.288 ± 0.312 (0.783) C:78% T:85%**	pCi/L	05/31/23 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000 ± 0.668 (1.52)**	pCi/L	06/13/23 15:31	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 586661
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343918001, 50343918002, 50343918003, 50343918004

METHOD BLANK: 2849958 Matrix: Water
Associated Lab Samples: 50343918001, 50343918002, 50343918003, 50343918004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0765 ± 0.212 (0.412) C:NA T:96%	pCi/L	06/05/23 13:27	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 586662
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343918001, 50343918002, 50343918003, 50343918004

METHOD BLANK: 2849962 Matrix: Water
Associated Lab Samples: 50343918001, 50343918002, 50343918003, 50343918004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.537 ± 0.299 (0.526) C:83% T:93%	pCi/L	05/23/23 11:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 588031
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50344059001, 50344059002, 50344059003, 50344059004

METHOD BLANK: 2857356 Matrix: Water
Associated Lab Samples: 50344059001, 50344059002, 50344059003, 50344059004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0233 ± 0.290 (0.676) C:81% T:87%	pCi/L	05/22/23 12:05	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 585857
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343389001, 50343389002

METHOD BLANK: 2845633 Matrix: Water
Associated Lab Samples: 50343389001, 50343389002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0964 ± 0.220 (0.131) C:NA T:86%	pCi/L	05/19/23 14:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 588457
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50344195001, 50344195002, 50344195003

METHOD BLANK: 2859398 Matrix: Water
Associated Lab Samples: 50344195001, 50344195002, 50344195003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0472 ± 0.216 (0.438) C:NA T:90%	pCi/L	06/13/23 14:05	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 588458
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50344195001, 50344195002, 50344195003

METHOD BLANK: 2859400 Matrix: Water
Associated Lab Samples: 50344195001, 50344195002, 50344195003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.643 ± 0.344 (0.604) C:83% T:90%	pCi/L	05/31/23 15:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 588030
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50344059001, 50344059002, 50344059003, 50344059004

METHOD BLANK: 2857355 Matrix: Water
Associated Lab Samples: 50344059001, 50344059002, 50344059003, 50344059004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.271 ± 0.249 (0.147) C:NA T:88%	pCi/L	05/24/23 13:51	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 587441
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343750001, 50343750002

METHOD BLANK: 2854009 Matrix: Water
Associated Lab Samples: 50343750001, 50343750002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.120 ± 0.285 (0.695) C:85% T:86%	pCi/L	05/24/23 15:06	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 585859
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343389001, 50343389002

METHOD BLANK: 2845642 Matrix: Water
Associated Lab Samples: 50343389001, 50343389002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.159 ± 0.298 (0.655) C:87% T:85%	pCi/L	05/12/23 15:53	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

QC Batch: 587440
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50343750001, 50343750002

METHOD BLANK: 2854006 Matrix: Water
Associated Lab Samples: 50343750001, 50343750002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.116 ± 0.227 (0.416) C:NA T:97%	pCi/L	06/02/23 15:42	

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QUALIFIERS

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

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: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50343389001	**GAMW-46-042723**	EPA 903.1	585857		
50343389002	**GAMW-46B-042723**	EPA 903.1	585857		
50343750001	**GAMW-42-050223**	EPA 903.1	587440		
50343750002	**GAMW-42B-050223**	EPA 903.1	587440		
50343918001	**GAMW-42C-050323**	EPA 903.1	586661		
50343918002	**GAMW-43-050323**	EPA 903.1	586661		
50343918003	**GAMW-43B-050323**	EPA 903.1	586661		
50343918004	**FD-05-050323**	EPA 903.1	586661		
50344059001	**GAMW-44-050423**	EPA 903.1	588030		
50344059002	**GAMW-44B-050423**	EPA 903.1	588030		
50344059003	**GAMW-57-050423**	EPA 903.1	588030		
50344059004	**FB-05-050423**	EPA 903.1	588030		
50344195001	**GAMW-57B-050523**	EPA 903.1	588457		
50344195002	**GAMW-58-050523**	EPA 903.1	588457		
50344195003	**GAMW-58B-050523**	EPA 903.1	588457		
50343389001	**GAMW-46-042723**	EPA 904.0	585859		
50343389002	**GAMW-46B-042723**	EPA 904.0	585859		
50343750001	**GAMW-42-050223**	EPA 904.0	587441		
50343750002	**GAMW-42B-050223**	EPA 904.0	587441		
50343918001	**GAMW-42C-050323**	EPA 904.0	586662		
50343918002	**GAMW-43-050323**	EPA 904.0	586662		
50343918003	**GAMW-43B-050323**	EPA 904.0	586662		
50343918004	**FD-05-050323**	EPA 904.0	586662		
50344059001	**GAMW-44-050423**	EPA 904.0	588031		
50344059002	**GAMW-44B-050423**	EPA 904.0	588031		
50344059003	**GAMW-57-050423**	EPA 904.0	588031		
50344059004	**FB-05-050423**	EPA 904.0	588031		
50344195001	**GAMW-57B-050523**	EPA 904.0	588458		
50344195002	**GAMW-58-050523**	EPA 904.0	588458		
50344195003	**GAMW-58B-050523**	EPA 904.0	588458		
50343389001	**GAMW-46-042723**	Total Radium Calculation	589741		
50343389002	**GAMW-46B-042723**	Total Radium Calculation	589741		
50343750001	**GAMW-42-050223**	Total Radium Calculation	592784		
50343750002	**GAMW-42B-050223**	Total Radium Calculation	592784		
50343918001	**GAMW-42C-050323**	Total Radium Calculation	592769		
50343918002	**GAMW-43-050323**	Total Radium Calculation	592769		
50343918003	**GAMW-43B-050323**	Total Radium Calculation	592769		
50343918004	**FD-05-050323**	Total Radium Calculation	592769		
50344059001	**GAMW-44-050423**	Total Radium Calculation	592786		
50344059002	**GAMW-44B-050423**	Total Radium Calculation	592786		
50344059003	**GAMW-57-050423**	Total Radium Calculation	592786		
50344059004	**FB-05-050423**	Total Radium Calculation	592786		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment Apr23
Pace Project No.: 50343389

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50344195001	**GAMW-57B-050523**	Total Radium Calculation	594605		
50344195002	**GAMW-58-050523**	Total Radium Calculation	594605		
50344195003	**GAMW-58B-050523**	Total Radium Calculation	594605		

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CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 50343389

50343389

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO
Merrillville, IN 46410	Sarah Gilles	Address:
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3

Regulatory Agency: —

State / Location: IN

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)
37	[redacted]	WT																	X	
38	[redacted]	WT																	X	
39	[redacted]	WT																	X	
40	GAMW-46 – 042723	WT	G			4/27/23	1225		2			2							X	001
41	GAMW-46B – 042723	WT	G			4/27/23	1355		2			2							X	002
42	[redacted]	WT																	X	
43	[redacted]	WT																	X	
44	[redacted]	WT																	X	
45	[redacted]	WT																	X	
46	[redacted]	WT																	X	
47	[redacted]	WT																	X	
48	[redacted]	WT																	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	4/27/23	1600							
		4/28	0900		4/28	0850	0.7	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GUZMAN

SIGNATURE of SAMPLER: [signature]

DATE Signed: 4/27/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 04/28/23 1000 EMC

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):** 0/0.7 | | | |

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

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

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				✓
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	MeOH (only) / SBS / DI / R	VIALS: DG9H VG9H	VOA VIAL HS (>6mm)	VG9U	DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG2U	AG3S	AG3SF	AG3C	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																												
2																												
3																												
4																2												WW
5																1												WW
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
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

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 D

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

WO# : 50343265

50343265

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	Regulatory Agency
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 3140478 9. 011	Pace Profile #: 9045-3	IN

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

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
37	[redacted]	WT																	X		
38	[redacted]	WT																	X		
39	[redacted]	WT																	X		
40	[redacted]	WT																	X		
41	[redacted]	WT																	X		
42	[redacted]	WT																	X		
43	[redacted]	WT																	X		
44	[redacted]	WT																	X		
45	[redacted]	WT																	X		
46	GAMW-54 – 042623	WT	G			4/24/23	1005		2			2							X		001
47	GAMW-54B – 042623	WT	G			4/24/23	1120		2			2							X		002
48	GAMW-55R – 042623	WT	G			4/24/23	1235		2			2							X		003

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	WSP	4/26/23	1600	FE						
	FE	4/27/23	0855		4/27/23	0855	Dry Ice	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R GUZMAN

SIGNATURE of SAMPLER: [signature]

DATE Signed: 4/26/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DD 4/27/23 1127

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):** 1.9/1.7 | 2.0/1.8 | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

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

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

			VIALS						AMBER GLASS							PLASTIC										OTHER								
		MeOH (only)																															
		SBS																															
		DI																															
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																	
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																2												WT					
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

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 Do

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

WO# : 50343266

50343266

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)
49	GAMW-55B -042623	WT				4/24/23	1355		2			2							X	
50	[redacted]	WT																	X	
51	[redacted]	WT																	X	
52	[redacted]	WT																	X	
53	[redacted]	WT																	X	
54	[redacted]	WT																	X	
55	[redacted]	WT																	X	
56	[redacted]	WT																	X	
57	[redacted]	WT																	X	
58	[redacted]	WT																	X	
59	FB-03 - 042623	WT	G			4/24/23	1130		2			2							X	
60	[redacted]	WT																	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	[signature] WSP	4/24/23	1600	[signature]						
	[signature]	4/25/23	0855	[signature]	4/25/23	0855	4.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: [signature] DATE Signed: 4/26/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DD 4/27/23 1127

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):** 1.9/1.7 | 2.0/1.8 | | |
   (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC									OTHER					Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																												Red	Yellow	Green	Black
		DI																															
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																	2												WT				
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																	2												WT				
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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 b

WO# : 50343750

50343750

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	314047B9.011	Pace Profile #:	9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
13	GAMW-42 - 050223	WT	G			5/2/23	1035		2			2							X		001
14	GAMW-42B - 050223	WT	G			5/2/23	1250		2			2							X		002
15	[redacted]	WT																	X		
16	[redacted]	WT																	X		
17	[redacted]	WT																	X		
18	[redacted]	WT																	X		
19	[redacted]	WT																	X		
20	[redacted]	WT																	X		
21	[redacted]	WT																	X		
22	[redacted]	WT																	X		
23	[redacted]	WT																	X		
24	[redacted]	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	[signature] / WSP	5/2/23	1530	Fedex						
	FedEx	5/3/23	0930	[signature]	5/3/23	0930	1.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: [signature] DATE Signed: 5/2/23

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/3/23 1430 IL

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):** 1.0/1.0 | | | |
   (Initial/Corrected) **RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)**
5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.**	IL 5/3		
Short Hold Time Analysis (48 hours or less)? Analysis:		✓	**Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** IL 5/3 IL 5/3 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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

			VIALS						AMBER GLASS							PLASTIC										OTHER							
		MeOH (only)																														
		SBS																														
		DI																														
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																2												2				
2																												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	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
3G1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
3G1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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 r

WO# : 50343918

50343918

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.01	Pace Profile #:	9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
13	[redacted]	WT																	X		
14	GAMW-42B	WT																	X		
15	GAMW-42C -050823	WT	G			5/3/23	1100		2			2							X		UU1
16	GAMW-43 -050323	WT	G			5/3/23	1300		2			2							X		UU2
17	GAMW-43B -050323	WT	G			5/3/23	1425		2			2							X		UU3
18	[redacted]	WT																	X		
19	GAMW-44B	WT																	X		
20	GAMW-51	WT																	X		
21	[redacted]	WT																	X		
22	GAMW-57	WT																	X		
23	[redacted]	WT																	X		
24	GAMW-60	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	WSP	5/3/23	1630	FEDEX						
	FEDEX	5/4/23	0925		5/4/23	0925	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:			
SIGNATURE of SAMPLER:		DATE Signed:	5/3/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analytes Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)	
61	[redacted] FD-05-050323	WT				5/3/23	1200		2			2							X		004
62	[redacted]																				
63	[redacted]																				
64	[redacted]																				
65	[redacted]																				
66	[redacted]																				
67	[redacted]																				
68	[redacted]																				
69	[redacted]																				
70	[redacted]																				
71	[redacted]																				
72	[redacted]																				

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace PA	[redacted] WSP	5/3/23	1630	FEDEX						
	FEDEX	5/4/23	0825	[redacted]	5/4/23	0925	1.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. ANZMAN

SIGNATURE of SAMPLER: [redacted]

DATE Signed: 5/3/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: MTV 5/4/23 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):** 1.8/1.8 | | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

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

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				✓
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:		✓	

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

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

			VIALS						AMBER GLASS							PLASTIC										OTHER								
		MeOH (only)																															
		SBS																															
		DI																															
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																																	
2																																	
3																2												45					
4																1												1					
5																1												1					
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 2 of 2

Sample Container Count

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

			VIALS						AMBER GLASS							PLASTIC										OTHER							
		MeOH (only)																														
		SBS																														
		DI																														
COC Line Item	WGFU	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		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																2												5T				
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

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 Doc

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

WO# : 50344059

50344059

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	Regulatory Agency
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Analyses Test: Radium 226+228(sum)	Residual Chlorine (Y/N)
13	[redacted]	WT																	X	
14	[redacted]	WT																	X	
15	[redacted]	WT																	X	
16	[redacted]	WT																	X	
17	[redacted]	WT																	X	
18	GAMW-44 – 050423	WT	G			5/4/23	1105		2			2							X	
19	GAMW-44B – 050423	WT	G			5/4/23	1225		2			2							X	
20	[redacted]	WT																	X	
21	[redacted]	WT																	X	
22	GAMW-57 – 050423	WT	G			5/4/23	1355		2			2							X	
23	[redacted]	WT																	X	
24	[redacted]	WT																	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	5/4/23	1630	Fedex						
	Fedex	5/5/23	0850		5/5/23	0850	3.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 5/4/23

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 Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	NiSource WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

Regulatory Agency: —

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)	
61	FB-05 – 050423	WT	G			5/4/23	1410		2			2							X		004
62																					
63																					
64																					
65																					
66																					
67																					
68																					
69																					
70																					
71																					
72																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace PA	WSP	5/4/23	1630	Fedex						
	Fedex	5/5/23	0850	DL	5/5/23	0850	3.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GILLMAN

SIGNATURE of SAMPLER: [signature] DATE Signed: 5/4/23

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

F-IN-Q-290-rev.22, 22Apr2022

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/5/23 1040 IL

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):** 3.0/3.0 | | | |
   (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.** **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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

		MeOH (only)		VIALS					AMBER GLASS							PLASTIC										OTHER					Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																													Red	Yellow	Green	Black
		DI																																
COC Line Item	WGFU	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		Matrix						
																															HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																																		
2																																		
3																																		
4																																		
5																																		
6																	2												WT					
7																	↓												↓					
8																																		
9																																		
10																	2												WT					
11																																		
12																																		

Container Codes

Glass

DG9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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

COC PAGE 1 of 1

Sample Container Count

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

		VIALS						AMBER GLASS							PLASTIC									OTHER						Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		MeOH (only)																											Red	Yellow	Green	Black
		SBS																														
		DI																														
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																	2												SL				
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	BP1B	1L NaOH plastic
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass	BP1N	1L HNO3 plastic
DG9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass	BP1S	1L H2SO4 plastic
DG9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass	BP1U	1L unpreserved plastic
DG9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass	BP1Z	1L NaOH, Zn, Ac
VG9H	40mL HCl clear vial	AG1H	1L HCl amber glass	BP2N	500mL HNO3 plastic
VG9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass	BP2C	500mL NaOH plastic
VG9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass	BP2S	500mL H2SO4 plastic
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
WGKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Ac
WGFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass	BP3B	250mL NaOH plastic
JGFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
CG3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic-field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3SF	250mL H2SO4 amb glass -field filtered	BP3U	250mL unpreserved plastic
BG1H	1L HCl clear glass	AG3U	250mL unpres amber glass	BP3S	250mL H2SO4 plastic
BG1S	1L H2SO4 clear glass	AG3C	250mL NaOH amber glass	BP3Z	250mL NaOH, ZnAc plastic

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# : 50344195

50344195

Analytical Request Document

OCUMENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:	Section Required		
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NIPSCO	Regulatory Agency
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment Apr23	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Radium 226+228(sum)	Residual Chlorine (Y/N)	
13	[redacted]	WT																	X		
14	[redacted]	WT																	X		
15	[redacted]	WT																	X		
[redacted]	[redacted]	WT																	X		
17	[redacted]	WT																	X		
18	[redacted]	WT																	X		
19	[redacted]	WT																	X		
20	[redacted]	WT																	X		
21	[redacted]	WT																	X		
22	[redacted]	WT																	X		
23	GAMW-57B – 050523	WT	G			5/5/23	1105		2			2							X		001
24	GAMW-58 – 050523	WT	G			5/5/23	1150		2			2							X		002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	5/5/23	1500	Fedex						
	Fedex			Marcus Wienhoff	5/6/23	0715	1.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [redacted]

SIGNATURE of SAMPLER: [redacted] DATE Signed: 5/5/23

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 Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NIPSCO
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment Apr23	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

Regulatory Agency: —

State / Location: IN

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)	
25	GAMW-58B — 050523	WT	G			5/5/23	1310		2			2							X		003
26	[redacted]	WT																	X		
27	[redacted]	WT																	X		
28	[redacted]	WT																	X		
29	[redacted]	WT																	X		
30	[redacted]	WT																	X		
31	[redacted]	WT																	X		
32	[redacted]	WT																	X		
33	[redacted]	WT																	X		
34	[redacted]	WT																	X		
35	[redacted]	WT																	X		
36	[redacted]	WT																	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	5/5/23	1500	Fedex						
	Fedex			Marcus Winbush	5/6/23	0915	1.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 5/5/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 5/6/23 1351 -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):** 1.8 | 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.** **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:		✓				✓
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?			✓
Containers Intact?	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 2

Sample Container Count

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

		MeOH (only)	VIALS					AMBER GLASS							PLASTIC									OTHER					Nitric	Sulfuric	Sodium Hydroxide	Sodium Hydroxide/ ZnAc
		SBS																											Red	Yellow	Green	Black
		DI																														
COC Line Item	WGFU	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		Matrix	HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
1																																
2																																
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																2												WT				
12																↓												↓				

Container Codes

Glass

)G9H	40mL HCl amber voa vial	BG1T	1L Na Thiosulfate clear glass
)G9P	40mL TSP amber vial	BG1U	1L unpreserved glass
)G9S	40mL H2SO4 amber vial	BG3H	250mL HCl Clear Glass
)G9T	40mL Na Thio amber vial	BG3U	250mL Unpres Clear Glass
G9U	40mL unpreserved amber vial	AG0U	100mL unpres amber glass
G9H	40mL HCl clear vial	AG1H	1L HCl amber glass
G9T	40mL Na Thio. clear vial	AG1S	1L H2SO4 amber glass
G9U	40mL unpreserved clear vial	AG1T	1L Na Thiosulfate amber glass
I	40mL w/hexane wipe vial	AG1U	1liter unpres amber glass
'GKU	8oz unpreserved clear jar	AG2N	500mL HNO3 amber glass
'GFU	4oz clear soil jar	AG2S	500mL H2SO4 amber glass
GFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
G3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
G3F	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

Plastic

BP1B	1L NaOH plastic
BP1N	1L HNO3 plastic
BP1S	1L H2SO4 plastic
BP1U	1L unpreserved plastic
BP1Z	1L NaOH, Zn, Ac
BP2N	500mL HNO3 plastic
BP2C	500mL NaOH plastic
BP2S	500mL H2SO4 plastic
BP2U	500mL unpreserved plastic
BP2Z	500mL NaOH, Zn Ac
BP3B	250mL NaOH plastic
BP3N	250mL HNO3 plastic
BP3F	250mL HNO3 plastic-field filtered
BP3U	250mL unpreserved plastic
BP3S	250mL H2SO4 plastic
BP3Z	250mL NaOH, ZnAc plastic
BP4U	125mL unpreserved plastic
BP4N	125mL HNO3 plastic
BP4S	125mL H2SO4 plastic

Miscellaneous

Syringe Kit	LL Cr+6 sampling kit
ZPLC	Ziploc Bag
R	Terracore Kit
SP5T	120mL Coliform Sodium Thiosulfate
GN	General Container
U	Summa Can (air sample)
WT	Water
SL	Solid Solid
OL	Oil
NAL	Non-aqueous liquid
WP	Wipe

COC PAGE 2 of 2

Sample Container Count

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

		MeOH (only)		VIALS						AMBER GLASS							PLASTIC									OTHER				Matrix	Nitric Red	Sulfuric Yellow	Sodium Hydroxide Green	Sodium Hydroxide/ ZnAc Black
COC Line Item	WGFU	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			HNO3 <2	H2SO4 <2	NaOH >10	NaOH/Zn Ac >9
		R																															
1																	2												ER				
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Container Codes

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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
1	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
GFU	4oz unpreserved amber wide	AG2U	500mL unpres amber glass
G3H	250mL clear glass HCl	AG3S	250mL H2SO4 amber glass
G3F	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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		

Miscellaneous

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

APPENDIX B

September/October 2023 Analytical Laboratory Report

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

November 17, 2023

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

RE: Project: RMSGS Assessment
Pace Project No.: 50353874

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2023 and October 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

Revised report replaces report dated 10/17/23. ID for 50354261005 corrected per COC. 11/17/23tms

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

Sincerely,

Tina Sayer

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

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without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: RMSGS Assessment
Pace Project No.: 50353874

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50353874001	**GAMW-01-091323**	Water	09/13/23 13:35	09/14/23 09:15
50353874002	**GAMW-01B-091323**	Water	09/13/23 14:30	09/14/23 09:15
50353997001	**GAMW-14-091423**	Water	09/14/23 10:05	09/15/23 09:05
50353997002	**GAMW-14B-091423**	Water	09/14/23 11:05	09/15/23 09:05
50353997003	**GAMW-13-091423**	Water	09/14/23 12:10	09/15/23 09:05
50353997004	**GAMW-13B-091423**	Water	09/14/23 13:25	09/15/23 09:05
50354089001	**GAMW-12-091523**	Water	09/15/23 10:15	09/16/23 09:05
50354089002	**GAMW-12B-091523**	Water	09/15/23 11:00	09/16/23 09:05
50354089003	**GAMW-03-091523**	Water	09/15/23 12:10	09/16/23 09:05
50354089004	**GAMW-03B-091523**	Water	09/15/23 14:25	09/16/23 09:05
50354175001	**GAMW-51-091823**	Water	09/18/23 14:15	09/19/23 09:05
50354261001	**GAMW-51B-091923**	Water	09/19/23 11:05	09/20/23 09:20
50354261002	**GAMW-08-091923**	Water	09/19/23 12:40	09/20/23 09:20
50354261003	**GAMW-08B-091923**	Water	09/19/23 13:55	09/20/23 09:20
50354261004	**FD-03-091923**	Water	09/19/23 12:00	09/20/23 09:20
50354261005	**FB-04-091923**	Water	09/19/23 14:10	09/20/23 09:20
50354261006	**GAMW-60-091923**	Water	09/19/23 11:05	09/20/23 09:20
50354261007	**GAMW-60B-091923**	Water	09/19/23 12:20	09/20/23 09:20
50354261008	**GAMW-59-091923**	Water	09/19/23 13:20	09/20/23 09:20
50354383001	**GAMW-16R-092023**	Water	09/20/23 10:45	09/21/23 09:20
50354383002	**GAMW-16BR-092023**	Water	09/20/23 12:10	09/21/23 09:20
50354383003	**GAMW-59B-092023**	Water	09/20/23 11:45	09/21/23 09:20
50354383004	**GAMW-17-092023**	Water	09/20/23 13:10	09/21/23 09:20
50354467001	**GAMW-09-092123**	Water	09/21/23 10:55	09/22/23 09:25
50354467002	**GAMW-09B-092123**	Water	09/21/23 12:05	09/22/23 09:25
50354467003	**GAMW-18-092123**	Water	09/21/23 13:30	09/22/23 09:25
50354467004	**FB-03-092123**	Water	09/21/23 10:55	09/22/23 09:25
50354467005	**FD-04-092123**	Water	09/21/23 12:00	09/22/23 09:25
50354592001	**GAMW-18B-092223**	Water	09/22/23 10:40	09/23/23 09:05
50354592002	**GAMW-56-092223**	Water	09/22/23 12:00	09/23/23 09:05
50354592003	**FD-05-092223**	Water	09/22/23 12:00	09/23/23 09:05
50354669001	**GAMW-54-092523**	Water	09/25/23 11:05	09/26/23 09:15
50354669002	**GAMW-54B-092523**	Water	09/25/23 12:45	09/26/23 09:15
50354669003	**FB-05-092523**	Water	09/25/23 13:20	09/26/23 09:15
50354669004	**GAMW-56B-092523**	Water	09/25/23 10:35	09/26/23 09:15
50354669005	**GAMW-52-092523**	Water	09/25/23 11:40	09/26/23 09:15
50354669006	**GAMW-52B-092523**	Water	09/25/23 13:05	09/26/23 09:15

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SAMPLE SUMMARY

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355025001	**GAMW-53-092823**	Water	09/28/23 11:15	09/29/23 09:25
50355025002	**GAMW-53B-092823**	Water	09/28/23 12:05	09/29/23 09:25
50355129001	**GAMW-55R-092923**	Water	09/29/23 11:20	09/30/23 09:15
50355129002	**GAMW-55B-092923**	Water	09/29/23 12:50	09/30/23 09:15
50355221001	**GAMW-17B-100223**	Water	10/02/23 11:05	10/03/23 08:50
50355221002	**GAMW-68-100223**	Water	10/02/23 13:05	10/03/23 08:50
50355221003	**GAMW-68B-100223**	Water	10/02/23 14:35	10/03/23 08:50
50355221004	**FD-06-100223**	Water	10/02/23 12:00	10/03/23 08:50
50355221005	**FB-06-100224**	Water	10/02/23 14:40	10/03/23 08:50

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50353874001	**GAMW-01-091323**	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	LHZ	1	PASI-I
50353874002	**GAMW-01B-091323**	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	LHZ	1	PASI-I
50353997001	**GAMW-14-091423**	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50353997002	**GAMW-14B-091423**	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50353997003	**GAMW-13-091423**	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50353997004	**GAMW-13B-091423**	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354089001	**GAMW-12-091523**	EPA 9056	ADM	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354089002	**GAMW-12B-091523**	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354089003	**GAMW-03-091523**	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354089004	**GAMW-03B-091523**	EPA 9056	ADM	3	PASI-I
		EPA 6010	JPK	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354175001	**GAMW-51-091823**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354261001	**GAMW-51B-091923**	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	LHZ	1	PASI-I
50354261002	**GAMW-08-091923**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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
50354261003	**GAMW-08B-091923**	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	LHZ	1	PASI-I
50354261004	**FD-03-091923**	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	LHZ	1	PASI-I
50354261005	**FB-04-091923**	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
50354261006	**GAMW-60-091923**	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
50354261007	**GAMW-60B-091923**	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
50354261008	**GAMW-59-091923**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
50354383001	**GAMW-16R-092023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
50354383002	**GAMW-16BR-092023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
50354383003	**GAMW-59B-092023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
50354383004	**GAMW-17-092023**	EPA 9056	ADM	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	CAW	11	PASI-I
		EPA 7470	ILP	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	RJP	1	PASI-I
50354467001	**GAMW-09-092123**	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	LHZ	1	PASI-I
50354467002	**GAMW-09B-092123**	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: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354467003	**GAMW-18-092123**	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	LHZ	1	PASI-I
50354467004	**FB-03-092123**	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	LHZ	1	PASI-I
50354467005	**FD-04-092123**	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	LHZ	1	PASI-I
50354592001	**GAMW-18B-092223**	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
50354592002	**GAMW-56-092223**	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
50354592003	**FD-05-092223**	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

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		SM 4500-H+B	LHZ	1	PASI-I
50354669001	**GAMW-54-092523**	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	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354669002	**GAMW-54B-092523**	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	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354669003	**FB-05-092523**	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	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354669004	**GAMW-56B-092523**	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	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354669005	**GAMW-52-092523**	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	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50354669006	**GAMW-52B-092523**	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	AEL	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355025001	**GAMW-53-092823**	EPA 9056	ADM	3	PASI-I
		EPA 6010	ELK	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	BMS	1	PASI-I
50355025002	**GAMW-53B-092823**	EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	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	BMS	1	PASI-I
50355129001	**GAMW-55R-092923**	EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	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
50355129002	**GAMW-55B-092923**	EPA 9056	KBB	3	PASI-I
		EPA 6010	ELK	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
50355221001	**GAMW-17B-100223**	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	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50355221002	**GAMW-68-100223**	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	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50355221003	**GAMW-68B-100223**	EPA 9056	ADM	3	PASI-I

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	MTM	3	PASI-I
		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
50355221004	**FD-06-100223**	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	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50355221005	**FB-06-100224**	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	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

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Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50353874001	**GAMW-01-091323**					
EPA 9056	Chloride	15.5	mg/L	0.25	09/16/23 20:18	
EPA 9056	Fluoride	0.32	mg/L	0.050	09/16/23 20:18	
EPA 9056	Sulfate	127	mg/L	2.5	09/16/23 20:35	
EPA 6010	Boron	1.1	mg/L	0.10	09/23/23 11:25	
EPA 6010	Calcium	95.2	mg/L	1.0	09/23/23 11:25	
EPA 6010	Lithium	0.0053J	mg/L	0.020	09/23/23 11:25	
EPA 6020	Arsenic	0.012	mg/L	0.0010	09/25/23 11:57	
EPA 6020	Barium	0.058	mg/L	0.0010	09/25/23 11:57	
EPA 6020	Chromium	0.00078J	mg/L	0.0020	09/25/23 11:57	
EPA 6020	Cobalt	0.0017	mg/L	0.0010	09/25/23 11:57	
EPA 6020	Lead	0.000038J	mg/L	0.0010	09/25/23 11:57	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	09/25/23 11:57	
EPA 6020	Selenium	0.0043	mg/L	0.0010	09/25/23 11:57	
EPA 6020	Thallium	0.000098J	mg/L	0.0010	09/25/23 11:57	
SM 2540C	Total Dissolved Solids	441	mg/L	10.0	09/19/23 12:38	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	09/26/23 19:16	H3
50353874002	**GAMW-01B-091323**					
EPA 9056	Chloride	20.7	mg/L	0.25	09/16/23 20:53	
EPA 9056	Fluoride	0.14	mg/L	0.050	09/16/23 20:53	
EPA 9056	Sulfate	68.2	mg/L	2.5	09/16/23 21:10	
EPA 6010	Boron	0.35	mg/L	0.10	09/23/23 11:27	
EPA 6010	Calcium	113	mg/L	1.0	09/23/23 11:27	
EPA 6010	Lithium	0.0082J	mg/L	0.020	09/23/23 11:27	
EPA 6020	Arsenic	0.00034J	mg/L	0.0010	09/25/23 12:00	
EPA 6020	Barium	0.18	mg/L	0.0010	09/25/23 12:00	
EPA 6020	Chromium	0.00070J	mg/L	0.0020	09/25/23 12:00	
EPA 6020	Cobalt	0.00024J	mg/L	0.0010	09/25/23 12:00	
EPA 6020	Lead	0.000064J	mg/L	0.0010	09/25/23 12:00	
EPA 6020	Molybdenum	0.0011	mg/L	0.0010	09/25/23 12:00	
EPA 6020	Selenium	0.00035J	mg/L	0.0010	09/25/23 12:00	
SM 2540C	Total Dissolved Solids	456	mg/L	10.0	09/19/23 12:38	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	09/26/23 19:17	H3
50353997001	**GAMW-14-091423**					
EPA 9056	Chloride	7.9	mg/L	0.25	09/17/23 07:07	
EPA 9056	Fluoride	0.14	mg/L	0.050	09/17/23 07:07	
EPA 9056	Sulfate	24.1	mg/L	0.25	09/17/23 07:07	
EPA 6010	Boron	0.16	mg/L	0.10	09/23/23 01:13	
EPA 6010	Calcium	81.0	mg/L	1.0	09/23/23 01:13	
EPA 6020	Arsenic	0.014	mg/L	0.0010	09/25/23 12:03	
EPA 6020	Barium	0.051	mg/L	0.0010	09/25/23 12:03	
EPA 6020	Chromium	0.00083J	mg/L	0.0020	09/25/23 12:03	
EPA 6020	Cobalt	0.016	mg/L	0.0010	09/25/23 12:03	
EPA 6020	Lead	0.000067J	mg/L	0.0010	09/25/23 12:03	
EPA 6020	Molybdenum	0.0044	mg/L	0.0010	09/25/23 12:03	
EPA 6020	Selenium	0.00033J	mg/L	0.0010	09/25/23 12:03	
SM 2540C	Total Dissolved Solids	307	mg/L	10.0	09/20/23 14:06	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50353997001	**GAMW-14-091423**					
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	09/27/23 19:24	H3
50353997002	**GAMW-14B-091423**					
EPA 9056	Chloride	124	mg/L	2.5	09/17/23 08:50	
EPA 9056	Fluoride	0.23	mg/L	0.050	09/17/23 08:33	
EPA 9056	Sulfate	1140	mg/L	25.0	09/17/23 09:07	
EPA 6010	Boron	3.5	mg/L	0.10	09/23/23 01:15	
EPA 6010	Calcium	174	mg/L	1.0	09/23/23 01:15	
EPA 6020	Arsenic	0.00071J	mg/L	0.0010	09/25/23 12:13	
EPA 6020	Barium	0.083	mg/L	0.0010	09/25/23 12:13	
EPA 6020	Beryllium	0.000065J	mg/L	0.00020	09/25/23 12:13	
EPA 6020	Chromium	0.0016J	mg/L	0.0020	09/25/23 12:13	
EPA 6020	Cobalt	0.00032J	mg/L	0.0010	09/25/23 12:13	
EPA 6020	Lead	0.000057J	mg/L	0.0010	09/25/23 12:13	
EPA 6020	Molybdenum	0.018	mg/L	0.0010	09/25/23 12:13	
EPA 6020	Selenium	0.00064J	mg/L	0.0010	09/25/23 12:13	
SM 2540C	Total Dissolved Solids	2230	mg/L	40.0	09/20/23 14:06	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	09/27/23 19:25	H3
50353997003	**GAMW-13-091423**					
EPA 9056	Chloride	12.2	mg/L	0.25	09/17/23 09:24	
EPA 9056	Fluoride	0.26	mg/L	0.050	09/17/23 09:24	
EPA 9056	Sulfate	41.1	mg/L	0.25	09/17/23 09:24	
EPA 6010	Boron	0.21	mg/L	0.10	09/23/23 01:18	
EPA 6010	Calcium	67.2	mg/L	1.0	09/23/23 01:18	
EPA 6020	Arsenic	0.0057	mg/L	0.0010	09/25/23 12:17	
EPA 6020	Barium	0.11	mg/L	0.0010	09/25/23 12:17	
EPA 6020	Cadmium	0.000069J	mg/L	0.00020	09/25/23 12:17	
EPA 6020	Chromium	0.00096J	mg/L	0.0020	09/25/23 12:17	
EPA 6020	Cobalt	0.00067J	mg/L	0.0010	09/25/23 12:17	
EPA 6020	Molybdenum	0.0033	mg/L	0.0010	09/25/23 12:17	
EPA 6020	Selenium	0.00041J	mg/L	0.0010	09/25/23 12:17	
SM 2540C	Total Dissolved Solids	299	mg/L	10.0	09/20/23 14:06	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/27/23 19:26	H3
50353997004	**GAMW-13B-091423**					
EPA 9056	Chloride	25.9	mg/L	2.5	09/17/23 10:33	
EPA 9056	Fluoride	0.22	mg/L	0.050	09/17/23 10:16	
EPA 9056	Sulfate	125	mg/L	2.5	09/17/23 10:33	
EPA 6010	Boron	0.63	mg/L	0.10	09/23/23 01:30	
EPA 6010	Calcium	78.0	mg/L	1.0	09/23/23 01:30	
EPA 6020	Arsenic	0.0011	mg/L	0.0010	09/25/23 12:33	
EPA 6020	Barium	0.076	mg/L	0.0010	09/25/23 12:33	
EPA 6020	Chromium	0.00053J	mg/L	0.0020	09/25/23 12:33	
EPA 6020	Cobalt	0.000093J	mg/L	0.0010	09/25/23 12:33	
EPA 6020	Lead	0.00096J	mg/L	0.0010	09/25/23 12:33	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	09/25/23 12:33	
SM 2540C	Total Dissolved Solids	389	mg/L	10.0	09/20/23 14:11	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	09/27/23 19:27	H3

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354089001	**GAMW-12-091523**					
EPA 9056	Chloride	4.5	mg/L	0.25	09/22/23 09:23	
EPA 9056	Fluoride	0.20	mg/L	0.050	09/22/23 09:23	
EPA 9056	Sulfate	15.0	mg/L	0.25	09/22/23 09:23	
EPA 6010	Boron	0.062J	mg/L	0.10	09/23/23 01:47	
EPA 6010	Calcium	86.3	mg/L	1.0	09/23/23 01:47	
EPA 6020	Arsenic	0.024	mg/L	0.0010	09/25/23 12:37	
EPA 6020	Barium	0.091	mg/L	0.0010	09/25/23 12:37	
EPA 6020	Chromium	0.00050J	mg/L	0.0020	09/25/23 12:37	
EPA 6020	Cobalt	0.0019	mg/L	0.0010	09/25/23 12:37	
EPA 6020	Molybdenum	0.0037	mg/L	0.0010	09/25/23 12:37	
EPA 6020	Selenium	0.00036J	mg/L	0.0010	09/25/23 12:37	
SM 2540C	Total Dissolved Solids	338	mg/L	10.0	09/21/23 15:22	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/02/23 12:51	H3
50354089002	**GAMW-12B-091523**					
EPA 9056	Chloride	22.5	mg/L	2.5	09/22/23 10:32	
EPA 9056	Fluoride	0.098J	mg/L	0.050	09/22/23 10:15	
EPA 9056	Sulfate	90.5	mg/L	2.5	09/22/23 10:32	
EPA 6010	Boron	0.42	mg/L	0.10	09/23/23 01:49	
EPA 6010	Calcium	110	mg/L	1.0	09/23/23 01:49	
EPA 6020	Arsenic	0.00044J	mg/L	0.0010	09/25/23 12:40	
EPA 6020	Barium	0.15	mg/L	0.0010	09/25/23 12:40	
EPA 6020	Chromium	0.00038J	mg/L	0.0020	09/25/23 12:40	
EPA 6020	Cobalt	0.00019J	mg/L	0.0010	09/25/23 12:40	
EPA 6020	Molybdenum	0.0020	mg/L	0.0010	09/25/23 12:40	
SM 2540C	Total Dissolved Solids	475	mg/L	10.0	09/21/23 15:22	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/02/23 12:51	H3
50354089003	**GAMW-03-091523**					
EPA 9056	Chloride	4.1	mg/L	0.25	09/22/23 13:24	
EPA 9056	Fluoride	0.16	mg/L	0.050	09/22/23 13:24	
EPA 9056	Sulfate	34.9	mg/L	0.25	09/22/23 13:24	
EPA 6010	Boron	0.12	mg/L	0.10	09/23/23 01:52	
EPA 6010	Calcium	69.4	mg/L	1.0	09/23/23 01:52	
EPA 6020	Arsenic	0.016	mg/L	0.0010	09/25/23 12:50	
EPA 6020	Barium	0.071	mg/L	0.0010	09/25/23 12:50	
EPA 6020	Chromium	0.00040J	mg/L	0.0020	09/25/23 12:50	
EPA 6020	Cobalt	0.00081J	mg/L	0.0010	09/25/23 12:50	
EPA 6020	Lead	0.000041J	mg/L	0.0010	09/25/23 12:50	
EPA 6020	Molybdenum	0.0095	mg/L	0.0010	09/25/23 12:50	
EPA 6020	Selenium	0.00025J	mg/L	0.0010	09/25/23 12:50	
SM 2540C	Total Dissolved Solids	280	mg/L	10.0	09/21/23 15:22	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/02/23 12:53	H3
50354089004	**GAMW-03B-091523**					
EPA 9056	Chloride	24.5	mg/L	2.5	09/22/23 14:50	
EPA 9056	Fluoride	0.21	mg/L	0.050	09/22/23 14:32	
EPA 9056	Sulfate	118	mg/L	2.5	09/22/23 14:50	
EPA 6010	Boron	0.42	mg/L	0.10	09/23/23 01:55	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354089004	**GAMW-03B-091523**					
EPA 6010	Calcium	108	mg/L	1.0	09/23/23 01:55	
EPA 6020	Arsenic	0.00044J	mg/L	0.0010	09/25/23 12:53	
EPA 6020	Barium	0.11	mg/L	0.0010	09/25/23 12:53	
EPA 6020	Chromium	0.00054J	mg/L	0.0020	09/25/23 12:53	
EPA 6020	Cobalt	0.00020J	mg/L	0.0010	09/25/23 12:53	
EPA 6020	Lead	0.00011J	mg/L	0.0010	09/25/23 12:53	
EPA 6020	Molybdenum	0.0059	mg/L	0.0010	09/25/23 12:53	
EPA 6020	Selenium	0.00020J	mg/L	0.0010	09/25/23 12:53	
SM 2540C	Total Dissolved Solids	477	mg/L	10.0	09/21/23 15:23	
SM 4500-H+B	pH at 25 Degrees C	6.9	Std. Units	0.10	10/02/23 13:37	H3
50354175001	**GAMW-51-091823**					
EPA 9056	Chloride	3.9	mg/L	0.25	09/23/23 21:20	
EPA 9056	Fluoride	0.32	mg/L	0.050	09/23/23 21:20	
EPA 9056	Sulfate	282	mg/L	2.5	09/22/23 09:20	
EPA 6010	Boron	0.67	mg/L	0.10	09/23/23 11:53	
EPA 6010	Calcium	178	mg/L	1.0	09/23/23 11:53	
EPA 6010	Lithium	0.0070J	mg/L	0.020	09/23/23 11:53	
EPA 6020	Arsenic	0.0014	mg/L	0.0010	09/25/23 12:57	
EPA 6020	Barium	0.12	mg/L	0.0010	09/25/23 12:57	
EPA 6020	Cadmium	0.000011J	mg/L	0.00020	09/25/23 12:57	
EPA 6020	Chromium	0.00037J	mg/L	0.0020	09/25/23 12:57	
EPA 6020	Cobalt	0.0027	mg/L	0.0010	09/25/23 12:57	
EPA 6020	Lead	0.000037J	mg/L	0.0010	09/25/23 12:57	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	09/25/23 12:57	
EPA 6020	Selenium	0.00021J	mg/L	0.0010	09/25/23 12:57	
SM 2540C	Total Dissolved Solids	782	mg/L	10.0	09/21/23 14:41	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/02/23 13:43	H3
50354261001	**GAMW-51B-091923**					
EPA 9056	Chloride	44.7	mg/L	2.5	09/30/23 18:33	
EPA 9056	Fluoride	1.0	mg/L	0.050	09/30/23 18:16	
EPA 9056	Sulfate	1430	mg/L	25.0	10/04/23 00:41	
EPA 6010	Boron	7.4	mg/L	0.10	09/23/23 12:13	
EPA 6010	Calcium	199	mg/L	1.0	09/23/23 12:13	
EPA 6010	Lithium	0.056	mg/L	0.020	09/23/23 12:13	
EPA 6020	Arsenic	0.0042	mg/L	0.0010	09/27/23 15:37	
EPA 6020	Barium	0.050	mg/L	0.0010	09/27/23 15:37	
EPA 6020	Cadmium	0.000023J	mg/L	0.00020	09/27/23 15:37	
EPA 6020	Chromium	0.00055J	mg/L	0.0020	09/27/23 15:37	
EPA 6020	Cobalt	0.00036J	mg/L	0.0010	09/27/23 15:37	
EPA 6020	Molybdenum	0.13	mg/L	0.0010	09/27/23 15:37	
EPA 6020	Selenium	0.00049J	mg/L	0.0010	09/27/23 15:37	
SM 2540C	Total Dissolved Solids	2120	mg/L	40.0	09/25/23 15:51	
SM 4500-H+B	pH at 25 Degrees C	6.7	Std. Units	0.10	10/02/23 14:03	H3
50354261002	**GAMW-08-091923**					
EPA 9056	Chloride	57.5	mg/L	2.5	10/04/23 01:12	
EPA 9056	Fluoride	1.7	mg/L	0.050	09/26/23 19:13	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354261002	**GAMW-08-091923**					
EPA 9056	Sulfate	494	mg/L	25.0	10/04/23 01:28	
EPA 6010	Boron	1.6	mg/L	0.10	09/23/23 12:14	
EPA 6010	Calcium	253	mg/L	2.0	09/23/23 12:31	
EPA 6010	Lithium	0.013J	mg/L	0.020	09/23/23 12:14	
EPA 6020	Antimony	0.00077J	mg/L	0.0010	09/27/23 15:40	
EPA 6020	Arsenic	0.0025	mg/L	0.0010	09/27/23 15:40	
EPA 6020	Barium	0.051	mg/L	0.0010	09/27/23 15:40	
EPA 6020	Cadmium	0.000080J	mg/L	0.00020	09/27/23 15:40	
EPA 6020	Chromium	0.00023J	mg/L	0.0020	09/27/23 15:40	
EPA 6020	Cobalt	0.0044	mg/L	0.0010	09/27/23 15:40	
EPA 6020	Molybdenum	0.057	mg/L	0.0010	09/27/23 15:40	
EPA 6020	Selenium	0.0081	mg/L	0.0010	09/27/23 15:40	
EPA 6020	Thallium	0.00019J	mg/L	0.0010	09/27/23 15:40	
SM 2540C	Total Dissolved Solids	1290	mg/L	20.0	09/25/23 15:51	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	10/02/23 14:04	H3
50354261003	**GAMW-08B-091923**					
EPA 9056	Chloride	219	mg/L	25.0	09/30/23 19:24	
EPA 9056	Fluoride	1.4	mg/L	0.050	09/26/23 19:48	
EPA 9056	Sulfate	1160	mg/L	25.0	09/30/23 19:24	
EPA 6010	Boron	15.5	mg/L	0.10	09/23/23 12:16	
EPA 6010	Calcium	216	mg/L	2.0	09/23/23 12:33	
EPA 6010	Lithium	0.0091J	mg/L	0.020	09/23/23 12:16	
EPA 6020	Arsenic	0.00049J	mg/L	0.0010	09/27/23 15:51	
EPA 6020	Barium	0.050	mg/L	0.0010	09/27/23 15:51	
EPA 6020	Chromium	0.00045J	mg/L	0.0020	09/27/23 15:51	
EPA 6020	Cobalt	0.00036J	mg/L	0.0010	09/27/23 15:51	
EPA 6020	Molybdenum	0.014	mg/L	0.0010	09/27/23 15:51	
EPA 6020	Selenium	0.00044J	mg/L	0.0010	09/27/23 15:51	
SM 2540C	Total Dissolved Solids	2310	mg/L	40.0	09/25/23 15:51	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/02/23 14:05	H3
50354261004	**FD-03-091923**					
EPA 9056	Chloride	46.4	mg/L	2.5	10/04/23 02:00	
EPA 9056	Fluoride	0.94	mg/L	0.050	09/26/23 20:22	
EPA 9056	Sulfate	1270	mg/L	25.0	10/04/23 02:15	
EPA 6010	Boron	7.4	mg/L	0.10	09/23/23 12:20	
EPA 6010	Calcium	200	mg/L	1.0	09/23/23 12:20	
EPA 6010	Lithium	0.056	mg/L	0.020	09/23/23 12:20	
EPA 6020	Arsenic	0.0042	mg/L	0.0010	09/27/23 15:54	
EPA 6020	Barium	0.049	mg/L	0.0010	09/27/23 15:54	
EPA 6020	Chromium	0.00056J	mg/L	0.0020	09/27/23 15:54	
EPA 6020	Cobalt	0.00040J	mg/L	0.0010	09/27/23 15:54	
EPA 6020	Molybdenum	0.13	mg/L	0.0010	09/27/23 15:54	
EPA 6020	Selenium	0.00050J	mg/L	0.0010	09/27/23 15:54	
SM 2540C	Total Dissolved Solids	2040	mg/L	40.0	09/25/23 15:52	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/02/23 14:07	H3

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354261005	**FB-04-091923**					
EPA 6010	Boron	0.019J	mg/L	0.10	09/23/23 12:22	
EPA 6020	Barium	0.00056J	mg/L	0.0010	09/27/23 15:57	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	09/27/23 15:57	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	10/03/23 16:34	H3
50354261006	**GAMW-60-091923**					
EPA 9056	Chloride	27.1	mg/L	2.5	09/30/23 20:50	
EPA 9056	Fluoride	0.45	mg/L	0.050	09/26/23 21:31	
EPA 9056	Sulfate	517	mg/L	25.0	09/30/23 21:08	
EPA 6010	Boron	1.5	mg/L	0.10	09/23/23 12:23	
EPA 6010	Calcium	267	mg/L	2.0	09/23/23 12:34	
EPA 6010	Lithium	0.0073J	mg/L	0.020	09/23/23 12:23	
EPA 6020	Antimony	0.00020J	mg/L	0.0010	09/27/23 16:01	
EPA 6020	Arsenic	0.00033J	mg/L	0.0010	09/27/23 16:01	
EPA 6020	Barium	0.031	mg/L	0.0010	09/27/23 16:01	
EPA 6020	Cadmium	0.000032J	mg/L	0.00020	09/27/23 16:01	
EPA 6020	Chromium	0.0019J	mg/L	0.0020	09/27/23 16:01	
EPA 6020	Cobalt	0.0011	mg/L	0.0010	09/27/23 16:01	
EPA 6020	Molybdenum	0.019	mg/L	0.0010	09/27/23 16:01	
EPA 6020	Selenium	0.0021	mg/L	0.0010	09/27/23 16:01	
SM 2540C	Total Dissolved Solids	1160	mg/L	20.0	09/25/23 15:52	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/03/23 16:26	H3
50354261007	**GAMW-60B-091923**					
EPA 9056	Chloride	9.2	mg/L	0.25	09/26/23 22:39	
EPA 9056	Fluoride	0.41	mg/L	0.050	09/26/23 22:39	
EPA 9056	Sulfate	1040	mg/L	25.0	09/30/23 21:25	
EPA 6010	Boron	4.3	mg/L	0.10	09/23/23 12:25	
EPA 6010	Calcium	368	mg/L	3.0	09/23/23 12:39	
EPA 6010	Lithium	0.064	mg/L	0.020	09/23/23 12:25	
EPA 6020	Arsenic	0.00019J	mg/L	0.0010	09/27/23 16:15	
EPA 6020	Barium	0.062	mg/L	0.0010	09/27/23 16:15	
EPA 6020	Cadmium	0.000022J	mg/L	0.00020	09/27/23 16:15	
EPA 6020	Chromium	0.00030J	mg/L	0.0020	09/27/23 16:15	
EPA 6020	Cobalt	0.00057J	mg/L	0.0010	09/27/23 16:15	
EPA 6020	Molybdenum	0.15	mg/L	0.0010	09/27/23 16:15	
SM 2540C	Total Dissolved Solids	1730	mg/L	20.0	09/25/23 15:52	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/03/23 16:28	H3
50354261008	**GAMW-59-091923**					
EPA 9056	Chloride	5.7	mg/L	0.25	09/26/23 23:14	
EPA 9056	Fluoride	0.70	mg/L	0.050	09/26/23 23:14	
EPA 9056	Sulfate	549	mg/L	25.0	09/30/23 21:42	
EPA 6010	Boron	0.50	mg/L	0.10	09/23/23 12:26	
EPA 6010	Calcium	265	mg/L	2.0	09/23/23 12:40	
EPA 6010	Lithium	0.0099J	mg/L	0.020	09/23/23 12:26	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	09/27/23 16:18	
EPA 6020	Barium	0.069	mg/L	0.0010	09/27/23 16:18	
EPA 6020	Chromium	0.00038J	mg/L	0.0020	09/27/23 16:18	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354261008	**GAMW-59-091923**					
EPA 6020	Cobalt	0.00083J	mg/L	0.0010	09/27/23 16:18	
EPA 6020	Molybdenum	0.025	mg/L	0.0010	09/27/23 16:18	
SM 2540C	Total Dissolved Solids	1050	mg/L	20.0	09/25/23 15:53	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/03/23 16:29	H3
50354383001	**GAMW-16R-092023**					
EPA 9056	Chloride	44.3	mg/L	2.5	09/27/23 18:19	
EPA 9056	Fluoride	0.65	mg/L	0.050	09/27/23 18:02	
EPA 9056	Sulfate	181	mg/L	2.5	09/27/23 18:19	
EPA 6010	Boron	6.1	mg/L	0.10	09/29/23 11:19	
EPA 6010	Calcium	137	mg/L	1.0	09/29/23 11:19	
EPA 6020	Arsenic	0.0068	mg/L	0.0010	09/27/23 16:21	
EPA 6020	Barium	0.038	mg/L	0.0010	09/27/23 16:21	
EPA 6020	Chromium	0.00031J	mg/L	0.0020	09/27/23 16:21	
EPA 6020	Cobalt	0.0012	mg/L	0.0010	09/27/23 16:21	
EPA 6020	Molybdenum	0.042	mg/L	0.0010	09/27/23 16:21	
EPA 6020	Thallium	0.000066J	mg/L	0.0010	09/27/23 16:21	
SM 2540C	Total Dissolved Solids	656	mg/L	10.0	09/27/23 12:20	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/03/23 16:35	H3
50354383002	**GAMW-16BR-092023**					
EPA 9056	Chloride	245	mg/L	2.5	09/27/23 16:36	
EPA 9056	Fluoride	0.75	mg/L	0.050	09/27/23 16:19	
EPA 9056	Sulfate	786	mg/L	25.0	10/01/23 10:15	
EPA 6010	Boron	12.9	mg/L	0.10	09/29/23 11:26	
EPA 6010	Calcium	265	mg/L	2.0	09/29/23 11:53	
EPA 6010	Lithium	0.012J	mg/L	0.020	09/29/23 11:26	
EPA 6020	Arsenic	0.0023	mg/L	0.0010	09/27/23 16:55	
EPA 6020	Barium	0.026	mg/L	0.0010	09/27/23 16:55	
EPA 6020	Chromium	0.00049J	mg/L	0.0020	09/27/23 16:55	
EPA 6020	Cobalt	0.00042J	mg/L	0.0010	09/27/23 16:55	
EPA 6020	Lead	0.00012J	mg/L	0.0010	09/27/23 16:55	
EPA 6020	Molybdenum	0.0060	mg/L	0.0010	09/27/23 16:55	
EPA 6020	Selenium	0.00037J	mg/L	0.0010	09/27/23 16:55	
SM 2540C	Total Dissolved Solids	1860	mg/L	20.0	09/27/23 12:21	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/03/23 16:41	H3
50354383003	**GAMW-59B-092023**					
EPA 9056	Chloride	14.0	mg/L	0.25	09/27/23 16:53	
EPA 9056	Fluoride	0.46	mg/L	0.050	09/27/23 16:53	
EPA 9056	Sulfate	853	mg/L	25.0	10/01/23 10:30	
EPA 6010	Boron	3.0	mg/L	0.10	09/29/23 11:28	
EPA 6010	Calcium	184	mg/L	1.0	09/29/23 11:28	
EPA 6010	Lithium	0.0073J	mg/L	0.020	09/29/23 11:28	
EPA 6020	Arsenic	0.00070J	mg/L	0.0010	09/27/23 16:58	
EPA 6020	Barium	0.027	mg/L	0.0010	09/27/23 16:58	
EPA 6020	Chromium	0.00067J	mg/L	0.0020	09/27/23 16:58	
EPA 6020	Cobalt	0.00035J	mg/L	0.0010	09/27/23 16:58	
EPA 6020	Molybdenum	0.043	mg/L	0.0010	09/27/23 16:58	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354383003	**GAMW-59B-092023**					
EPA 6020	Selenium	0.00023J	mg/L	0.0010	09/27/23 16:58	
SM 2540C	Total Dissolved Solids	1500	mg/L	20.0	09/27/23 12:21	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/03/23 16:39	H3
50354383004	**GAMW-17-092023**					
EPA 9056	Chloride	35.8	mg/L	2.5	09/27/23 21:28	
EPA 9056	Fluoride	1.4	mg/L	0.050	09/27/23 21:11	
EPA 9056	Sulfate	348	mg/L	2.5	09/27/23 21:28	
EPA 6010	Boron	8.0	mg/L	0.10	09/29/23 11:29	
EPA 6010	Calcium	172	mg/L	1.0	09/29/23 11:29	
EPA 6020	Antimony	0.00026J	mg/L	0.0010	09/27/23 17:02	
EPA 6020	Arsenic	0.0025	mg/L	0.0010	09/27/23 17:02	
EPA 6020	Barium	0.059	mg/L	0.0010	09/27/23 17:02	
EPA 6020	Chromium	0.00067J	mg/L	0.0020	09/27/23 17:02	
EPA 6020	Cobalt	0.00028J	mg/L	0.0010	09/27/23 17:02	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	09/27/23 17:02	
EPA 6020	Selenium	0.0072	mg/L	0.0010	09/27/23 17:02	
SM 2540C	Total Dissolved Solids	843	mg/L	10.0	09/27/23 12:21	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/03/23 16:43	H3
50354467001	**GAMW-09-092123**					
EPA 9056	Chloride	21.7	mg/L	2.5	09/27/23 23:45	
EPA 9056	Fluoride	0.27	mg/L	0.050	09/27/23 23:28	
EPA 9056	Sulfate	489	mg/L	2.5	09/27/23 23:45	
EPA 6010	Boron	1.9	mg/L	0.10	09/29/23 11:37	
EPA 6010	Calcium	220	mg/L	2.0	09/29/23 11:56	
EPA 6020	Arsenic	0.00020J	mg/L	0.0010	09/27/23 17:05	
EPA 6020	Barium	0.040	mg/L	0.0010	09/27/23 17:05	
EPA 6020	Beryllium	0.00029	mg/L	0.00020	09/28/23 10:31	
EPA 6020	Cadmium	0.00010J	mg/L	0.00020	09/27/23 17:05	
EPA 6020	Chromium	0.00082J	mg/L	0.0020	09/27/23 17:05	
EPA 6020	Cobalt	0.00044J	mg/L	0.0010	09/27/23 17:05	
EPA 6020	Molybdenum	0.043	mg/L	0.0010	09/27/23 17:05	
EPA 6020	Selenium	0.0079	mg/L	0.0010	09/27/23 17:05	
SM 2540C	Total Dissolved Solids	957	mg/L	10.0	09/28/23 15:35	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/04/23 14:31	H3
50354467002	**GAMW-09B-092123**					
EPA 9056	Chloride	126	mg/L	2.5	09/28/23 00:54	
EPA 9056	Fluoride	0.84	mg/L	0.050	10/06/23 06:59	
EPA 9056	Sulfate	944	mg/L	25.0	10/01/23 11:18	
EPA 6010	Boron	8.5	mg/L	0.10	09/29/23 11:42	
EPA 6010	Calcium	291	mg/L	2.0	09/29/23 12:01	
EPA 6010	Lithium	0.0075J	mg/L	0.020	09/29/23 11:42	
EPA 6020	Arsenic	0.0018	mg/L	0.0010	09/27/23 17:16	
EPA 6020	Barium	0.058	mg/L	0.0010	09/27/23 17:16	
EPA 6020	Chromium	0.00025J	mg/L	0.0020	09/28/23 10:41	
EPA 6020	Cobalt	0.00078J	mg/L	0.0010	09/27/23 17:16	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	09/27/23 17:16	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354467002	**GAMW-09B-092123**					
EPA 6020	Selenium	0.00060J	mg/L	0.0010	09/27/23 17:16	
SM 2540C	Total Dissolved Solids	1740	mg/L	20.0	09/28/23 15:35	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/04/23 14:32	H3
50354467003	**GAMW-18-092123**					
EPA 9056	Chloride	70.7	mg/L	2.5	09/28/23 01:28	
EPA 9056	Fluoride	0.13	mg/L	0.050	09/28/23 01:11	
EPA 9056	Sulfate	967	mg/L	25.0	10/01/23 11:33	
EPA 6010	Boron	5.4	mg/L	0.10	09/29/23 11:44	
EPA 6010	Calcium	395	mg/L	2.0	09/29/23 12:03	
EPA 6020	Antimony	0.00012J	mg/L	0.0010	09/27/23 17:19	
EPA 6020	Arsenic	0.00082J	mg/L	0.0010	09/27/23 17:19	
EPA 6020	Barium	0.036	mg/L	0.0010	09/27/23 17:19	
EPA 6020	Cadmium	0.00010J	mg/L	0.00020	09/27/23 17:19	
EPA 6020	Chromium	0.0010J	mg/L	0.0020	09/28/23 10:44	
EPA 6020	Cobalt	0.00066J	mg/L	0.0010	09/27/23 17:19	
EPA 6020	Lead	0.00021J	mg/L	0.0010	09/27/23 17:19	
EPA 6020	Molybdenum	0.18	mg/L	0.0010	09/27/23 17:19	
EPA 6020	Selenium	0.050	mg/L	0.0010	09/27/23 17:19	
SM 2540C	Total Dissolved Solids	1810	mg/L	20.0	09/28/23 15:36	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/04/23 14:33	H3
50354467004	**FB-03-092123**					
EPA 6010	Boron	0.022J	mg/L	0.10	09/29/23 11:45	
EPA 6020	Barium	0.00042J	mg/L	0.0010	09/27/23 17:23	
EPA 6020	Chromium	0.00027J	mg/L	0.0020	09/28/23 10:51	
SM 4500-H+B	pH at 25 Degrees C	8.5	Std. Units	0.10	10/04/23 14:34	H3
50354467005	**FD-04-092123**					
EPA 9056	Chloride	70.4	mg/L	2.5	09/28/23 02:37	
EPA 9056	Fluoride	0.13	mg/L	0.050	09/28/23 02:20	
EPA 9056	Sulfate	958	mg/L	25.0	10/01/23 11:49	
EPA 6010	Boron	5.6	mg/L	0.10	09/29/23 11:47	
EPA 6010	Calcium	398	mg/L	2.0	09/29/23 12:05	
EPA 6020	Antimony	0.00012J	mg/L	0.0010	09/27/23 17:26	
EPA 6020	Arsenic	0.00084J	mg/L	0.0010	09/27/23 17:26	
EPA 6020	Barium	0.036	mg/L	0.0010	09/27/23 17:26	
EPA 6020	Cadmium	0.00011J	mg/L	0.00020	09/27/23 17:26	
EPA 6020	Chromium	0.0011J	mg/L	0.0020	09/28/23 10:48	
EPA 6020	Cobalt	0.00068J	mg/L	0.0010	09/27/23 17:26	
EPA 6020	Lead	0.00024J	mg/L	0.0010	09/27/23 17:26	
EPA 6020	Molybdenum	0.18	mg/L	0.0010	09/27/23 17:26	
EPA 6020	Selenium	0.049	mg/L	0.0010	09/27/23 17:26	
SM 2540C	Total Dissolved Solids	1810	mg/L	20.0	09/28/23 15:36	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/04/23 14:34	H3
50354592001	**GAMW-18B-092223**					
EPA 9056	Chloride	133	mg/L	25.0	10/10/23 10:47	
EPA 9056	Fluoride	0.98	mg/L	0.050	10/01/23 20:10	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354592001	**GAMW-18B-092223**					
EPA 9056	Sulfate	1110	mg/L	25.0	10/10/23 10:47	
EPA 6010	Boron	11.5	mg/L	0.10	10/05/23 16:26	
EPA 6010	Calcium	354	mg/L	3.0	10/05/23 17:09	
EPA 6010	Lithium	0.021	mg/L	0.020	10/05/23 16:26	
EPA 6020	Arsenic	0.0027	mg/L	0.0010	10/02/23 20:42	
EPA 6020	Barium	0.027	mg/L	0.0010	10/02/23 20:42	
EPA 6020	Chromium	0.00029J	mg/L	0.0020	10/02/23 20:42	
EPA 6020	Cobalt	0.00044J	mg/L	0.0010	10/02/23 20:42	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	10/02/23 20:42	
EPA 6020	Selenium	0.00024J	mg/L	0.0010	10/02/23 20:42	
SM 2540C	Total Dissolved Solids	2090	mg/L	20.0	09/28/23 15:57	
SM 4500-H+B	pH at 25 Degrees C	6.1	Std. Units	0.10	10/04/23 14:46	H3
50354592002	**GAMW-56-092223**					
EPA 9056	Chloride	12.5	mg/L	0.25	10/01/23 21:19	
EPA 9056	Fluoride	0.67	mg/L	0.050	10/01/23 21:19	
EPA 9056	Sulfate	65.8	mg/L	2.5	10/01/23 21:37	
EPA 6010	Boron	0.36	mg/L	0.10	10/05/23 16:27	
EPA 6010	Calcium	100	mg/L	1.0	10/05/23 16:27	
EPA 6020	Antimony	0.00015J	mg/L	0.0010	10/02/23 20:45	
EPA 6020	Arsenic	0.00091J	mg/L	0.0010	10/02/23 20:45	
EPA 6020	Barium	0.033	mg/L	0.0010	10/02/23 20:45	
EPA 6020	Cadmium	0.000030J	mg/L	0.00020	10/02/23 20:45	
EPA 6020	Chromium	0.00033J	mg/L	0.0020	10/02/23 20:45	
EPA 6020	Cobalt	0.0023	mg/L	0.0010	10/02/23 20:45	
EPA 6020	Molybdenum	0.0097	mg/L	0.0010	10/02/23 20:45	
EPA 6020	Selenium	0.00078J	mg/L	0.0010	10/02/23 20:45	
SM 2540C	Total Dissolved Solids	435	mg/L	10.0	09/28/23 15:57	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	10/04/23 14:47	H3
50354592003	**FD-05-092223**					
EPA 9056	Chloride	12.5	mg/L	0.25	10/01/23 21:54	
EPA 9056	Fluoride	0.68	mg/L	0.050	10/01/23 21:54	
EPA 9056	Sulfate	66.5	mg/L	2.5	10/01/23 22:11	
EPA 6010	Boron	0.35	mg/L	0.10	10/05/23 16:29	
EPA 6010	Calcium	101	mg/L	1.0	10/05/23 16:29	
EPA 6020	Antimony	0.00014J	mg/L	0.0010	10/02/23 20:49	
EPA 6020	Arsenic	0.00087J	mg/L	0.0010	10/02/23 20:49	
EPA 6020	Barium	0.032	mg/L	0.0010	10/02/23 20:49	
EPA 6020	Cadmium	0.000028J	mg/L	0.00020	10/02/23 20:49	
EPA 6020	Chromium	0.00030J	mg/L	0.0020	10/02/23 20:49	
EPA 6020	Cobalt	0.0023	mg/L	0.0010	10/02/23 20:49	
EPA 6020	Molybdenum	0.0095	mg/L	0.0010	10/02/23 20:49	
EPA 6020	Selenium	0.00079J	mg/L	0.0010	10/02/23 20:49	
SM 2540C	Total Dissolved Solids	391	mg/L	10.0	09/28/23 16:05	
SM 4500-H+B	pH at 25 Degrees C	6.8	Std. Units	0.10	10/04/23 14:48	H3
50354669001	**GAMW-54-092523**					
EPA 9056	Chloride	17.8	mg/L	2.5	10/03/23 16:38	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354669001	**GAMW-54-092523**					
EPA 9056	Fluoride	0.35	mg/L	0.050	10/03/23 16:21	
EPA 9056	Sulfate	192	mg/L	2.5	10/03/23 16:38	
EPA 6010	Boron	0.80	mg/L	0.10	10/05/23 16:55	
EPA 6010	Calcium	128	mg/L	1.0	10/05/23 16:55	
EPA 6020	Arsenic	0.015	mg/L	0.0010	09/29/23 21:58	
EPA 6020	Barium	0.053	mg/L	0.0010	09/29/23 21:58	
EPA 6020	Cadmium	0.000026J	mg/L	0.00020	09/29/23 21:58	
EPA 6020	Chromium	0.00070J	mg/L	0.0020	09/29/23 21:58	
EPA 6020	Cobalt	0.00068J	mg/L	0.0010	09/29/23 21:58	
EPA 6020	Lead	0.000063J	mg/L	0.0010	09/29/23 21:58	
EPA 6020	Molybdenum	0.040	mg/L	0.0010	09/29/23 21:58	
EPA 6020	Selenium	0.00055J	mg/L	0.0010	09/29/23 21:58	
EPA 6020	Thallium	0.00012J	mg/L	0.0010	09/29/23 21:58	
SM 2540C	Total Dissolved Solids	562	mg/L	10.0	09/30/23 14:31	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	10/04/23 16:43	H3
50354669002	**GAMW-54B-092523**					
EPA 9056	Chloride	129	mg/L	25.0	10/10/23 10:31	
EPA 9056	Fluoride	0.33	mg/L	0.050	10/10/23 10:15	
EPA 9056	Sulfate	500	mg/L	25.0	10/10/23 10:31	
EPA 6010	Boron	5.7	mg/L	0.10	10/05/23 16:57	
EPA 6010	Calcium	221	mg/L	2.0	10/05/23 17:10	
EPA 6010	Lithium	0.0065J	mg/L	0.020	10/05/23 16:57	
EPA 6020	Arsenic	0.0038	mg/L	0.0010	09/29/23 22:28	
EPA 6020	Barium	0.080	mg/L	0.0010	09/29/23 22:28	
EPA 6020	Chromium	0.00040J	mg/L	0.0020	09/29/23 22:28	
EPA 6020	Cobalt	0.00019J	mg/L	0.0010	09/29/23 22:28	
EPA 6020	Lead	0.000035J	mg/L	0.0010	09/29/23 22:28	
EPA 6020	Molybdenum	0.0092	mg/L	0.0010	09/29/23 22:28	
SM 2540C	Total Dissolved Solids	1210	mg/L	20.0	09/30/23 14:32	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/04/23 16:44	H3
50354669003	**FB-05-092523**					
EPA 6010	Boron	0.013J	mg/L	0.10	10/05/23 16:58	
EPA 6020	Barium	0.0010	mg/L	0.0010	09/29/23 21:55	C0
EPA 6020	Chromium	0.00029J	mg/L	0.0020	09/29/23 21:55	
EPA 6020	Lead	0.000034J	mg/L	0.0010	09/29/23 21:55	
SM 4500-H+B	pH at 25 Degrees C	8.7	Std. Units	0.10	10/04/23 16:45	H3
50354669004	**GAMW-56B-092523**					
EPA 9056	Chloride	58.4	mg/L	2.5	10/03/23 18:57	
EPA 9056	Fluoride	0.44	mg/L	0.050	10/03/23 18:40	
EPA 9056	Sulfate	368	mg/L	2.5	10/03/23 18:57	
EPA 6010	Boron	0.21	mg/L	0.10	10/05/23 17:00	
EPA 6010	Calcium	62.2	mg/L	1.0	10/05/23 17:00	
EPA 6020	Arsenic	0.00049J	mg/L	0.0010	09/29/23 22:32	
EPA 6020	Barium	0.082	mg/L	0.0010	09/29/23 22:32	
EPA 6020	Chromium	0.00041J	mg/L	0.0020	09/29/23 22:32	
EPA 6020	Cobalt	0.00017J	mg/L	0.0010	09/29/23 22:32	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354669004	**GAMW-56B-092523**					
EPA 6020	Molybdenum	0.0092	mg/L	0.0010	09/29/23 22:32	
SM 2540C	Total Dissolved Solids	924	mg/L	20.0	09/30/23 14:32	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/04/23 16:46	H3
50354669005	**GAMW-52-092523**					
EPA 9056	Chloride	70.3	mg/L	2.5	10/03/23 19:32	
EPA 9056	Fluoride	0.42	mg/L	0.050	10/03/23 19:15	
EPA 9056	Sulfate	65.5	mg/L	2.5	10/03/23 19:32	
EPA 6010	Boron	3.5	mg/L	0.10	10/05/23 17:01	
EPA 6010	Calcium	160	mg/L	1.0	10/05/23 17:01	
EPA 6010	Lithium	0.0073J	mg/L	0.020	10/05/23 17:01	
EPA 6020	Arsenic	0.00017J	mg/L	0.0010	09/29/23 22:35	
EPA 6020	Barium	0.014	mg/L	0.0010	09/29/23 22:35	
EPA 6020	Cadmium	0.000016J	mg/L	0.00020	09/29/23 22:35	
EPA 6020	Chromium	0.00028J	mg/L	0.0020	09/29/23 22:35	
EPA 6020	Cobalt	0.00011J	mg/L	0.0010	09/29/23 22:35	
EPA 6020	Molybdenum	0.0044	mg/L	0.0010	09/29/23 22:35	
EPA 6020	Selenium	0.00031J	mg/L	0.0010	09/29/23 22:35	
EPA 6020	Thallium	0.00014J	mg/L	0.0010	09/29/23 22:35	
SM 2540C	Total Dissolved Solids	379	mg/L	10.0	09/30/23 14:33	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/04/23 16:47	H3
50354669006	**GAMW-52B-092523**					
EPA 9056	Chloride	97.8	mg/L	2.5	10/03/23 20:07	
EPA 9056	Fluoride	0.71	mg/L	0.050	10/03/23 19:49	
EPA 9056	Sulfate	82.3	mg/L	2.5	10/03/23 20:07	
EPA 6010	Boron	0.094J	mg/L	0.10	10/05/23 17:07	
EPA 6010	Calcium	64.1	mg/L	1.0	10/05/23 17:07	
EPA 6020	Arsenic	0.00061J	mg/L	0.0010	09/29/23 22:38	
EPA 6020	Barium	0.084	mg/L	0.0010	09/29/23 22:38	
EPA 6020	Chromium	0.00034J	mg/L	0.0020	09/29/23 22:38	
EPA 6020	Cobalt	0.000060J	mg/L	0.0010	09/29/23 22:38	
EPA 6020	Lead	0.000047J	mg/L	0.0010	09/29/23 22:38	
EPA 6020	Molybdenum	0.012	mg/L	0.0010	09/29/23 22:38	
SM 2540C	Total Dissolved Solids	459	mg/L	10.0	09/30/23 14:33	
SM 4500-H+B	pH at 25 Degrees C	7.1	Std. Units	0.10	10/04/23 16:48	H3
50355025001	**GAMW-53-092823**					
EPA 9056	Chloride	2.7	mg/L	0.25	10/12/23 21:25	
EPA 9056	Fluoride	0.053J	mg/L	0.050	10/12/23 21:25	
EPA 9056	Sulfate	44.3	mg/L	2.5	10/12/23 21:42	
EPA 6010	Boron	0.11	mg/L	0.10	10/12/23 11:01	
EPA 6010	Calcium	42.4	mg/L	1.0	10/12/23 11:01	
EPA 6020	Antimony	0.00064J	mg/L	0.0010	10/04/23 05:45	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	10/04/23 05:45	
EPA 6020	Barium	0.028	mg/L	0.0010	10/04/23 05:45	
EPA 6020	Cadmium	0.000028J	mg/L	0.00020	10/04/23 05:45	
EPA 6020	Chromium	0.0013J	mg/L	0.0020	10/04/23 05:45	
EPA 6020	Cobalt	0.00051J	mg/L	0.0010	10/04/23 05:45	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355025001	**GAMW-53-092823**					
EPA 6020	Lead	0.00048J	mg/L	0.0010	10/04/23 05:45	
EPA 6020	Molybdenum	0.015	mg/L	0.0010	10/04/23 05:45	
EPA 6020	Selenium	0.00086J	mg/L	0.0010	10/04/23 05:45	
EPA 6020	Thallium	0.000067J	mg/L	0.0010	10/04/23 05:45	
SM 2540C	Total Dissolved Solids	211	mg/L	10.0	10/05/23 15:23	
SM 4500-H+B	pH at 25 Degrees C	7.0	Std. Units	0.10	10/13/23 14:33	H3
50355025002	**GAMW-53B-092823**					
EPA 9056	Chloride	123	mg/L	25.0	10/11/23 17:36	
EPA 9056	Fluoride	0.39	mg/L	0.050	10/11/23 17:03	
EPA 9056	Sulfate	498	mg/L	25.0	10/11/23 17:36	
EPA 6010	Boron	4.7	mg/L	0.10	10/12/23 11:03	
EPA 6010	Calcium	199	mg/L	1.0	10/12/23 11:03	
EPA 6020	Arsenic	0.00089J	mg/L	0.0010	10/04/23 05:48	
EPA 6020	Barium	0.071	mg/L	0.0010	10/04/23 05:48	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	10/04/23 05:48	
EPA 6020	Cobalt	0.00022J	mg/L	0.0010	10/04/23 05:48	
EPA 6020	Lead	0.000024J	mg/L	0.0010	10/04/23 05:48	
EPA 6020	Molybdenum	0.0065	mg/L	0.0010	10/04/23 05:48	
SM 2540C	Total Dissolved Solids	1280	mg/L	20.0	10/05/23 15:23	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/13/23 14:35	H3
50355129001	**GAMW-55R-092923**					
EPA 9056	Chloride	40.6	mg/L	2.5	10/12/23 00:05	
EPA 9056	Fluoride	0.75	mg/L	0.050	10/11/23 23:48	
EPA 9056	Sulfate	368	mg/L	2.5	10/12/23 00:05	
EPA 6010	Boron	0.014J	mg/L	0.10	10/12/23 11:59	
EPA 6020	Barium	0.00044J	mg/L	0.0010	10/04/23 06:12	
EPA 6020	Chromium	0.00028J	mg/L	0.0020	10/04/23 06:12	
EPA 6020	Lead	0.000026J	mg/L	0.0010	10/04/23 06:12	
SM 2540C	Total Dissolved Solids	806	mg/L	10.0	10/05/23 15:25	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/16/23 14:10	H3
50355129002	**GAMW-55B-092923**					
EPA 9056	Chloride	124	mg/L	2.5	10/12/23 00:53	
EPA 9056	Fluoride	0.24	mg/L	0.050	10/12/23 00:37	
EPA 9056	Sulfate	508	mg/L	25.0	10/12/23 01:09	
EPA 6010	Boron	7.6	mg/L	0.10	10/12/23 12:02	
EPA 6010	Calcium	191	mg/L	1.0	10/12/23 12:02	
EPA 6020	Arsenic	0.00018J	mg/L	0.0010	10/04/23 06:15	
EPA 6020	Barium	0.054	mg/L	0.0010	10/04/23 06:15	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	10/04/23 06:15	
EPA 6020	Cobalt	0.00021J	mg/L	0.0010	10/04/23 06:15	
EPA 6020	Lead	0.000022J	mg/L	0.0010	10/04/23 06:15	
EPA 6020	Molybdenum	0.0065	mg/L	0.0010	10/04/23 06:15	
SM 2540C	Total Dissolved Solids	1190	mg/L	20.0	10/05/23 15:25	
SM 4500-H+B	pH at 25 Degrees C	7.2	Std. Units	0.10	10/16/23 14:11	H3

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355221001	**GAMW-17B-100223**					
EPA 9056	Chloride	156	mg/L	2.5	10/14/23 00:19	
EPA 9056	Fluoride	0.66	mg/L	0.050	10/14/23 00:02	
EPA 9056	Sulfate	834	mg/L	25.0	10/14/23 00:36	
EPA 6010	Boron	11.4	mg/L	0.10	10/14/23 16:14	
EPA 6010	Calcium	288	mg/L	2.0	10/14/23 16:35	
EPA 6020	Arsenic	0.0028	mg/L	0.0010	10/06/23 06:08	
EPA 6020	Barium	0.069	mg/L	0.0010	10/06/23 06:08	
EPA 6020	Chromium	0.00027J	mg/L	0.0020	10/06/23 06:08	
EPA 6020	Cobalt	0.00026J	mg/L	0.0010	10/06/23 06:08	
EPA 6020	Lead	0.000026J	mg/L	0.0010	10/06/23 06:08	
EPA 6020	Molybdenum	0.016	mg/L	0.0010	10/06/23 06:08	
SM 2540C	Total Dissolved Solids	1480	mg/L	20.0	10/05/23 15:37	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/16/23 14:17	H3
50355221002	**GAMW-68-100223**					
EPA 9056	Chloride	18.7	mg/L	0.25	10/14/23 00:53	
EPA 9056	Fluoride	0.18	mg/L	0.050	10/14/23 00:53	
EPA 9056	Sulfate	63.6	mg/L	2.5	10/14/23 01:10	
EPA 6010	Boron	0.060J	mg/L	0.10	10/14/23 16:16	
EPA 6010	Calcium	63.9	mg/L	1.0	10/14/23 16:16	
EPA 6010	Lithium	0.0069J	mg/L	0.020	10/14/23 16:16	
EPA 6020	Antimony	0.00019J	mg/L	0.0010	10/06/23 06:18	
EPA 6020	Arsenic	0.00097J	mg/L	0.0010	10/06/23 06:18	
EPA 6020	Barium	0.10	mg/L	0.0010	10/06/23 06:18	
EPA 6020	Chromium	0.00021J	mg/L	0.0020	10/06/23 06:18	
EPA 6020	Cobalt	0.00053J	mg/L	0.0010	10/06/23 06:18	
EPA 6020	Lead	0.000086J	mg/L	0.0010	10/06/23 06:18	
EPA 6020	Molybdenum	0.0040	mg/L	0.0010	10/06/23 06:18	
SM 2540C	Total Dissolved Solids	282	mg/L	10.0	10/05/23 15:37	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/16/23 14:19	H3
50355221003	**GAMW-68B-100223**					
EPA 9056	Chloride	13.0	mg/L	0.25	10/14/23 01:45	
EPA 9056	Fluoride	0.17	mg/L	0.050	10/14/23 01:45	
EPA 9056	Sulfate	46.7	mg/L	2.5	10/14/23 02:02	
EPA 6010	Boron	0.041J	mg/L	0.10	10/14/23 16:19	
EPA 6010	Calcium	41.4	mg/L	1.0	10/14/23 16:19	
EPA 6010	Lithium	0.0067J	mg/L	0.020	10/14/23 16:19	
EPA 6020	Arsenic	0.00031J	mg/L	0.0010	10/06/23 06:21	
EPA 6020	Barium	0.082	mg/L	0.0010	10/06/23 06:21	
EPA 6020	Chromium	0.00024J	mg/L	0.0020	10/06/23 06:21	
EPA 6020	Cobalt	0.000046J	mg/L	0.0010	10/06/23 06:21	
EPA 6020	Lead	0.000061J	mg/L	0.0010	10/06/23 06:21	
EPA 6020	Molybdenum	0.0023	mg/L	0.0010	10/06/23 06:21	
SM 2540C	Total Dissolved Solids	203	mg/L	10.0	10/05/23 15:37	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/17/23 13:37	H3
50355221004	**FD-06-100223**					
EPA 9056	Chloride	12.9	mg/L	0.25	10/14/23 04:55	

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355221004	**FD-06-100223**					
EPA 9056	Fluoride	0.17	mg/L	0.050	10/14/23 04:55	
EPA 9056	Sulfate	46.7	mg/L	2.5	10/14/23 05:10	
EPA 6010	Boron	0.034J	mg/L	0.10	10/14/23 16:22	
EPA 6010	Calcium	41.4	mg/L	1.0	10/14/23 16:22	
EPA 6010	Lithium	0.0067J	mg/L	0.020	10/14/23 16:22	
EPA 6020	Arsenic	0.00029J	mg/L	0.0010	10/06/23 06:25	
EPA 6020	Barium	0.084	mg/L	0.0010	10/06/23 06:25	
EPA 6020	Chromium	0.00025J	mg/L	0.0020	10/06/23 06:25	
EPA 6020	Cobalt	0.000047J	mg/L	0.0010	10/06/23 06:25	
EPA 6020	Lead	0.000060J	mg/L	0.0010	10/06/23 06:25	
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	10/06/23 06:25	
SM 2540C	Total Dissolved Solids	205	mg/L	10.0	10/05/23 15:38	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/17/23 13:38	H3
50355221005	**FB-06-100224**					
EPA 6020	Barium	0.0015	mg/L	0.0010	10/06/23 06:28	C0
EPA 6020	Chromium	0.00026J	mg/L	0.0020	10/06/23 06:28	
EPA 6020	Lead	0.000046J	mg/L	0.0010	10/06/23 06:28	
SM 4500-H+B	pH at 25 Degrees C	8.3	Std. Units	0.10	10/17/23 13:38	H3

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 9056**
Description: 9056 IC Anions
Client: NiSource_WSP Golder
Date: November 17, 2023

General Information:
46 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: 753498

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50354221002,50354237004,50354238003

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

- MS (Lab ID: 3453058)
  - Chloride
- MSD (Lab ID: 3453059)
  - Chloride

QC Batch: 754174

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50354341004

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

- MS (Lab ID: 3456525)
  - Sulfate
- MSD (Lab ID: 3456526)
  - Sulfate

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 9056**
Description: 9056 IC Anions
Client: NiSource_WSP Golder
Date: November 17, 2023

QC Batch: 754343

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50354499010

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

- MS (Lab ID: 3457045)
  - Sulfate
- MSD (Lab ID: 3457046)
  - Sulfate

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_WSP Golder
Date: November 17, 2023

General Information:
46 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: 753049

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50353962006

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

- MS (Lab ID: 3451445)
  - Calcium
- MSD (Lab ID: 3451446)
  - Calcium

QC Batch: 753052

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50353997003

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

- MS (Lab ID: 3451465)
  - Calcium

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_WSP Golder
Date: November 17, 2023

QC Batch: 753604

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50354251004

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

- MSD (Lab ID: 3453558)
  - Calcium

QC Batch: 754101

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50354356004,50354383001

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

- MS (Lab ID: 3456314)
  - Boron
  - Calcium
- MSD (Lab ID: 3456315)
  - Calcium
- MSD (Lab ID: 3456414)
  - Calcium

QC Batch: 754484

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50354666001

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

- MSD (Lab ID: 3457560)
  - Calcium

QC Batch: 755296

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50354927001

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

- MSD (Lab ID: 3461723)
  - Calcium

QC Batch: 755562

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50355101002

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

- MS (Lab ID: 3462653)
  - Calcium

Additional Comments:

Analyte Comments:

QC Batch: 753604

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

- MS (Lab ID: 3453557)
  - Calcium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_WSP Golder
Date: November 17, 2023

Analyte Comments:

QC Batch: 753604

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

- MSD (Lab ID: 3453558)
  - Calcium

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_WSP Golder
Date: November 17, 2023

General Information:
46 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: 755546

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50355101002

M3: Matrix spike recovery was outside laboratory control limits due to matrix interferences.

- MS (Lab ID: 3462586)
  - Selenium
- MSD (Lab ID: 3462587)
  - Selenium

Additional Comments:

Analyte Comments:

QC Batch: 754691

C0: Result confirmed by second analysis.

- FB-05-092523 (Lab ID: 50354669003)
  - Barium

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_WSP Golder
Date: November 17, 2023

Analyte Comments:

QC Batch: 755244

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

- MS (Lab ID: 3461528)
  - Barium
- MSD (Lab ID: 3461529)
  - Barium

QC Batch: 755546

C0: Result confirmed by second analysis.

- FB-06-100224 (Lab ID: 50355221005)
  - Barium

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 7470**
Description: 7470 Mercury
Client: NiSource_WSP Golder
Date: November 17, 2023

General Information:
46 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:

Analyte Comments:

QC Batch: 753840

1d: The opening CRDL recovery exceeded acceptance limits (132% recovery)

- FB-04-091923 (Lab ID: 50354261005)
  - Mercury
- FD-03-091923 (Lab ID: 50354261004)
  - Mercury
- GAMW-08-091923 (Lab ID: 50354261002)
  - Mercury
- GAMW-08B-091923 (Lab ID: 50354261003)
  - Mercury
- GAMW-51B-091923 (Lab ID: 50354261001)
  - Mercury
- GAMW-59-091923 (Lab ID: 50354261008)
  - Mercury

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **EPA 7470**
Description: 7470 Mercury
Client: NiSource_WSP Golder
Date: November 17, 2023

Analyte Comments:

QC Batch: 753840

1d: The opening CRDL recovery exceeded acceptance limits (132% recovery)

- GAMW-60-091923 (Lab ID: 50354261006)
  - Mercury
- GAMW-60B-091923 (Lab ID: 50354261007)
  - Mercury

QC Batch: 754285

2d: The opening CRDL recovery exceeded acceptance limits (143% recovery).

- FB-03-092123 (Lab ID: 50354467004)
  - Mercury
- FD-04-092123 (Lab ID: 50354467005)
  - Mercury
- GAMW-09-092123 (Lab ID: 50354467001)
  - Mercury
- GAMW-09B-092123 (Lab ID: 50354467002)
  - Mercury
- GAMW-18-092123 (Lab ID: 50354467003)
  - Mercury

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: NiSource_WSP Golder
Date: November 17, 2023

General Information:
46 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: 754177

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- DUP (Lab ID: 3456536)
  - Total Dissolved Solids
- FB-04-091923 (Lab ID: 50354261005)
  - Total Dissolved Solids

QC Batch: 754860

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- FB-03-092123 (Lab ID: 50354467004)
  - Total Dissolved Solids

QC Batch: 755182

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- FB-05-092523 (Lab ID: 50354669003)
  - Total Dissolved Solids

QC Batch: 755913

PL: The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.
- FB-06-100224 (Lab ID: 50355221005)
  - Total Dissolved Solids

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: NiSource_WSP Golder
Date: November 17, 2023

General Information:
46 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-03-092123 (Lab ID: 50354467004)
- FB-04-091923 (Lab ID: 50354261005)
- FB-05-092523 (Lab ID: 50354669003)
- FB-06-100224 (Lab ID: 50355221005)
- FD-03-091923 (Lab ID: 50354261004)
- FD-04-092123 (Lab ID: 50354467005)
- FD-05-092223 (Lab ID: 50354592003)
- FD-06-100223 (Lab ID: 50355221004)
- GAMW-01-091323 (Lab ID: 50353874001)
- GAMW-01B-091323 (Lab ID: 50353874002)
- GAMW-03-091523 (Lab ID: 50354089003)
- GAMW-03B-091523 (Lab ID: 50354089004)
- GAMW-08-091923 (Lab ID: 50354261002)
- GAMW-08B-091923 (Lab ID: 50354261003)
- GAMW-09-092123 (Lab ID: 50354467001)
- GAMW-09B-092123 (Lab ID: 50354467002)
- GAMW-12-091523 (Lab ID: 50354089001)
- GAMW-12B-091523 (Lab ID: 50354089002)
- GAMW-13-091423 (Lab ID: 50353997003)
- GAMW-13B-091423 (Lab ID: 50353997004)
- GAMW-14-091423 (Lab ID: 50353997001)
- GAMW-14B-091423 (Lab ID: 50353997002)
- GAMW-16BR-092023 (Lab ID: 50354383002)
- GAMW-16R-092023 (Lab ID: 50354383001)
- GAMW-17-092023 (Lab ID: 50354383004)
- GAMW-17B-100223 (Lab ID: 50355221001)
- GAMW-18-092123 (Lab ID: 50354467003)
- GAMW-18B-092223 (Lab ID: 50354592001)
- GAMW-51-091823 (Lab ID: 50354175001)
- GAMW-51B-091923 (Lab ID: 50354261001)
- GAMW-52-092523 (Lab ID: 50354669005)
- GAMW-52B-092523 (Lab ID: 50354669006)
- GAMW-53-092823 (Lab ID: 50355025001)
- GAMW-53B-092823 (Lab ID: 50355025002)
- GAMW-54-092523 (Lab ID: 50354669001)
- GAMW-54B-092523 (Lab ID: 50354669002)
- GAMW-55B-092923 (Lab ID: 50355129002)

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353874

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: NiSource_WSP Golder
Date: November 17, 2023

H3: Sample was received or analysis requested beyond the recognized method holding time.
- GAMW-55R-092923 (Lab ID: 50355129001)
- GAMW-56-092223 (Lab ID: 50354592002)
- GAMW-56B-092523 (Lab ID: 50354669004)
- GAMW-59-091923 (Lab ID: 50354261008)
- GAMW-59B-092023 (Lab ID: 50354383003)
- GAMW-60-091923 (Lab ID: 50354261006)
- GAMW-60B-091923 (Lab ID: 50354261007)
- GAMW-68-100223 (Lab ID: 50355221002)
- GAMW-68B-100223 (Lab ID: 50355221003)

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: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-01-091323 **Lab ID: 50353874001** Collected: 09/13/23 13:35 Received: 09/14/23 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	**15.5**	mg/L	0.25	0.067	1		09/16/23 20:18	16887-00-6	
Fluoride	**0.32**	mg/L	0.050	0.017	1		09/16/23 20:18	16984-48-8	
Sulfate	**127**	mg/L	2.5	1.9	10		09/16/23 20:35	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	**1.1**	mg/L	0.10	0.011	1	09/18/23 16:22	09/23/23 11:25	7440-42-8	
Calcium	**95.2**	mg/L	1.0	0.057	1	09/18/23 16:22	09/23/23 11:25	7440-70-2	
Lithium	**0.0053J**	mg/L	0.020	0.0051	1	09/18/23 16:22	09/23/23 11:25	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	ND	mg/L	0.0010	0.00049	1	09/20/23 15:29	09/25/23 11:57	7440-36-0	
Arsenic	**0.012**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 11:57	7440-38-2	
Barium	**0.058**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 11:57	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 11:57	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 11:57	7440-43-9	
Chromium	**0.00078J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 11:57	7440-47-3	
Cobalt	**0.0017**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 11:57	7440-48-4	
Lead	**0.000038J**	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 11:57	7439-92-1	
Molybdenum	**0.012**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 11:57	7439-98-7	
Selenium	**0.0043**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 11:57	7782-49-2	
Thallium	**0.000098J**	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 11:57	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	ug/L	0.20	0.091	1	09/21/23 10:28	09/21/23 17:24	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	**441**	mg/L	10.0	10.0	1		09/19/23 12:38		
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		09/26/23 19:16		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-01B-091323 **Lab ID: 50353874002** Collected: 09/13/23 14:30 Received: 09/14/23 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	**20.7**	mg/L	0.25	0.067	1		09/16/23 20:53	16887-00-6	
Fluoride	**0.14**	mg/L	0.050	0.017	1		09/16/23 20:53	16984-48-8	
Sulfate	**68.2**	mg/L	2.5	1.9	10		09/16/23 21:10	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	**0.35**	mg/L	0.10	0.011	1	09/18/23 16:22	09/23/23 11:27	7440-42-8	
Calcium	**113**	mg/L	1.0	0.057	1	09/18/23 16:22	09/23/23 11:27	7440-70-2	
Lithium	**0.0082J**	mg/L	0.020	0.0051	1	09/18/23 16:22	09/23/23 11:27	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	09/20/23 15:29	09/25/23 12:00	7440-36-0	
Arsenic	**0.00034J**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:00	7440-38-2	
Barium	**0.18**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:00	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:00	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:00	7440-43-9	
Chromium	**0.00070J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:00	7440-47-3	
Cobalt	**0.00024J**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:00	7440-48-4	
Lead	**0.000064J**	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:00	7439-92-1	
Molybdenum	**0.0011**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:00	7439-98-7	
Selenium	**0.00035J**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 12:00	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	ug/L	0.20	0.091	1	09/21/23 10:28	09/21/23 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	**456**	mg/L	10.0	10.0	1		09/19/23 12:38		
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		09/26/23 19:17		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-14-091423 **Lab ID: 50353997001** Collected: 09/14/23 10:05 Received: 09/15/23 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	**7.9**	mg/L	0.25	0.067	1		09/17/23 07:07	16887-00-6	
Fluoride	**0.14**	mg/L	0.050	0.017	1		09/17/23 07:07	16984-48-8	
Sulfate	**24.1**	mg/L	0.25	0.19	1		09/17/23 07:07	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	**0.16**	mg/L	0.10	0.012	1	09/18/23 16:00	09/23/23 01:13	7440-42-8	
Calcium	**81.0**	mg/L	1.0	0.14	1	09/18/23 16:00	09/23/23 01:13	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	09/18/23 16:00	09/23/23 01:13	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	09/20/23 15:29	09/25/23 12:03	7440-36-0	
Arsenic	**0.014**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:03	7440-38-2	
Barium	**0.051**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:03	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:03	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:03	7440-43-9	
Chromium	**0.00083J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:03	7440-47-3	
Cobalt	**0.016**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:03	7440-48-4	
Lead	**0.000067J**	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:03	7439-92-1	
Molybdenum	**0.0044**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:03	7439-98-7	
Selenium	**0.00033J**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 12:03	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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 10:43	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	**307**	mg/L	10.0	10.0	1		09/20/23 14:06		
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		09/27/23 19:24		H3

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Indianapolis, IN 46268
(317)228-3100

ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-14B-091423 **Lab ID: 50353997002** Collected: 09/14/23 11:05 Received: 09/15/23 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	**124**	mg/L	2.5	0.67	10		09/17/23 08:50	16887-00-6	
Fluoride	**0.23**	mg/L	0.050	0.017	1		09/17/23 08:33	16984-48-8	
Sulfate	**1140**	mg/L	25.0	19.0	100		09/17/23 09:07	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	**3.5**	mg/L	0.10	0.012	1	09/18/23 16:00	09/23/23 01:15	7440-42-8	
Calcium	**174**	mg/L	1.0	0.14	1	09/18/23 16:00	09/23/23 01:15	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	09/18/23 16:00	09/23/23 01:15	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	09/20/23 15:29	09/25/23 12:13	7440-36-0	
Arsenic	**0.00071J**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:13	7440-38-2	
Barium	**0.083**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:13	7440-39-3	
Beryllium	**0.000065J**	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:13	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:13	7440-43-9	
Chromium	**0.0016J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:13	7440-47-3	
Cobalt	**0.00032J**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:13	7440-48-4	
Lead	**0.000057J**	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:13	7439-92-1	
Molybdenum	**0.018**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:13	7439-98-7	
Selenium	**0.00064J**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 10:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	**2230**	mg/L	40.0	40.0	1		09/20/23 14:06		
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		09/27/23 19:25		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-13-091423 **Lab ID: 50353997003** Collected: 09/14/23 12:10 Received: 09/15/23 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	**12.2**	mg/L	0.25	0.067	1		09/17/23 09:24	16887-00-6	
Fluoride	**0.26**	mg/L	0.050	0.017	1		09/17/23 09:24	16984-48-8	
Sulfate	**41.1**	mg/L	0.25	0.19	1		09/17/23 09:24	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	**0.21**	mg/L	0.10	0.012	1	09/18/23 16:00	09/23/23 01:18	7440-42-8	
Calcium	**67.2**	mg/L	1.0	0.14	1	09/18/23 16:00	09/23/23 01:18	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	09/18/23 16:00	09/23/23 01:18	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	09/20/23 15:29	09/25/23 12:17	7440-36-0	
Arsenic	**0.0057**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:17	7440-38-2	
Barium	**0.11**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:17	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:17	7440-41-7	
Cadmium	**0.000069J**	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:17	7440-43-9	
Chromium	**0.00096J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:17	7440-47-3	
Cobalt	**0.00067J**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:17	7439-92-1	
Molybdenum	**0.0033**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:17	7439-98-7	
Selenium	**0.00041J**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 10:48	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	**299**	mg/L	10.0	10.0	1		09/20/23 14:06		
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		09/27/23 19:26		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-13B-091423 **Lab ID: 50353997004** Collected: 09/14/23 13:25 Received: 09/15/23 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	**25.9**	mg/L	2.5	0.67	10		09/17/23 10:33	16887-00-6	
Fluoride	**0.22**	mg/L	0.050	0.017	1		09/17/23 10:16	16984-48-8	
Sulfate	**125**	mg/L	2.5	1.9	10		09/17/23 10:33	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	**0.63**	mg/L	0.10	0.012	1	09/18/23 16:00	09/23/23 01:30	7440-42-8	
Calcium	**78.0**	mg/L	1.0	0.14	1	09/18/23 16:00	09/23/23 01:30	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	09/18/23 16:00	09/23/23 01:30	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	ND	mg/L	0.0010	0.00049	1	09/20/23 15:29	09/25/23 12:33	7440-36-0	
Arsenic	**0.0011**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:33	7440-38-2	
Barium	**0.076**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:33	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:33	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:33	7440-43-9	
Chromium	**0.00053J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:33	7440-47-3	
Cobalt	**0.000093J**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:33	7440-48-4	
Lead	**0.00096J**	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:33	7439-92-1	
Molybdenum	**0.015**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:33	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 12:33	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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 10:55	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	**389**	mg/L	10.0	10.0	1		09/20/23 14:11		
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		09/27/23 19:27		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-12-091523 **Lab ID: 50354089001** Collected: 09/15/23 10:15 Received: 09/16/23 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	**4.5**	mg/L	0.25	0.067	1		09/22/23 09:23	16887-00-6	
Fluoride	**0.20**	mg/L	0.050	0.017	1		09/22/23 09:23	16984-48-8	
Sulfate	**15.0**	mg/L	0.25	0.19	1		09/22/23 09:23	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	**0.062J**	mg/L	0.10	0.012	1	09/18/23 16:00	09/23/23 01:47	7440-42-8	
Calcium	**86.3**	mg/L	1.0	0.14	1	09/18/23 16:00	09/23/23 01:47	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	09/18/23 16:00	09/23/23 01:47	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	ND	mg/L	0.0010	0.00049	1	09/20/23 15:29	09/25/23 12:37	7440-36-0	
Arsenic	**0.024**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:37	7440-38-2	
Barium	**0.091**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:37	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:37	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:37	7440-43-9	
Chromium	**0.00050J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:37	7440-47-3	
Cobalt	**0.0019**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:37	7439-92-1	
Molybdenum	**0.0037**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:37	7439-98-7	
Selenium	**0.00036J**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 11:05	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	**338**	mg/L	10.0	10.0	1		09/21/23 15:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.6**	Std. Units	0.10	0.10	1		10/02/23 12:51		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-12B-091523 **Lab ID: 50354089002** Collected: 09/15/23 11:00 Received: 09/16/23 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	**22.5**	mg/L	2.5	0.67	10		09/22/23 10:32	16887-00-6	
Fluoride	**0.098J**	mg/L	0.050	0.017	1		09/22/23 10:15	16984-48-8	
Sulfate	**90.5**	mg/L	2.5	1.9	10		09/22/23 10:32	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	**0.42**	mg/L	0.10	0.012	1	09/18/23 16:00	09/23/23 01:49	7440-42-8	
Calcium	**110**	mg/L	1.0	0.14	1	09/18/23 16:00	09/23/23 01:49	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	09/18/23 16:00	09/23/23 01:49	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	ND	mg/L	0.0010	0.00049	1	09/20/23 15:29	09/25/23 12:40	7440-36-0	
Arsenic	**0.00044J**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:40	7440-38-2	
Barium	**0.15**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:40	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:40	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:40	7440-43-9	
Chromium	**0.00038J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:40	7440-47-3	
Cobalt	**0.00019J**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:40	7439-92-1	
Molybdenum	**0.0020**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:40	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 11:08	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	**475**	mg/L	10.0	10.0	1		09/21/23 15:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		10/02/23 12:51		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-03-091523 **Lab ID: 50354089003** Collected: 09/15/23 12:10 Received: 09/16/23 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	**4.1**	mg/L	0.25	0.067	1		09/22/23 13:24	16887-00-6	
Fluoride	**0.16**	mg/L	0.050	0.017	1		09/22/23 13:24	16984-48-8	
Sulfate	**34.9**	mg/L	0.25	0.19	1		09/22/23 13:24	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	0.012	1	09/18/23 16:00	09/23/23 01:52	7440-42-8	
Calcium	**69.4**	mg/L	1.0	0.14	1	09/18/23 16:00	09/23/23 01:52	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	09/18/23 16:00	09/23/23 01:52	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	0.00049	1	09/20/23 15:29	09/25/23 12:50	7440-36-0	
Arsenic	**0.016**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:50	7440-38-2	
Barium	**0.071**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:50	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:50	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:50	7440-43-9	
Chromium	**0.00040J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:50	7440-47-3	
Cobalt	**0.00081J**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:50	7440-48-4	
Lead	**0.000041J**	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:50	7439-92-1	
Molybdenum	**0.0095**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:50	7439-98-7	
Selenium	**0.00025J**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 12:50	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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 11:10	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	**280**	mg/L	10.0	10.0	1		09/21/23 15:22		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		10/02/23 12:53		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-03B-091523 **Lab ID: 50354089004** Collected: 09/15/23 14:25 Received: 09/16/23 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	**24.5**	mg/L	2.5	0.67	10		09/22/23 14:50	16887-00-6	
Fluoride	**0.21**	mg/L	0.050	0.017	1		09/22/23 14:32	16984-48-8	
Sulfate	**118**	mg/L	2.5	1.9	10		09/22/23 14:50	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	**0.42**	mg/L	0.10	0.012	1	09/18/23 16:00	09/23/23 01:55	7440-42-8	
Calcium	**108**	mg/L	1.0	0.14	1	09/18/23 16:00	09/23/23 01:55	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	09/18/23 16:00	09/23/23 01:55	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	ND	mg/L	0.0010	0.00049	1	09/20/23 15:29	09/25/23 12:53	7440-36-0	
Arsenic	**0.00044J**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:53	7440-38-2	
Barium	**0.11**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:53	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:53	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:53	7440-43-9	
Chromium	**0.00054J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:53	7440-47-3	
Cobalt	**0.00020J**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:53	7440-48-4	
Lead	**0.00011J**	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:53	7439-92-1	
Molybdenum	**0.0059**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:53	7439-98-7	
Selenium	**0.00020J**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 12:53	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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 11:13	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		09/21/23 15:23		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.9**	Std. Units	0.10	0.10	1		10/02/23 13:37		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-51-091823 **Lab ID: 50354175001** Collected: 09/18/23 14:15 Received: 09/19/23 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	**3.9**	mg/L	0.25	0.067	1		09/23/23 21:20	16887-00-6	
Fluoride	**0.32**	mg/L	0.050	0.017	1		09/23/23 21:20	16984-48-8	
Sulfate	**282**	mg/L	2.5	1.9	10		09/22/23 09:20	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	**0.67**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 11:53	7440-42-8	
Calcium	**178**	mg/L	1.0	0.057	1	09/20/23 22:07	09/23/23 11:53	7440-70-2	
Lithium	**0.0070J**	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 11:53	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	ND	mg/L	0.0010	0.00049	1	09/20/23 15:29	09/25/23 12:57	7440-36-0	
Arsenic	**0.0014**	mg/L	0.0010	0.000075	1	09/20/23 15:29	09/25/23 12:57	7440-38-2	
Barium	**0.12**	mg/L	0.0010	0.000077	1	09/20/23 15:29	09/25/23 12:57	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/20/23 15:29	09/25/23 12:57	7440-41-7	
Cadmium	**0.000011J**	mg/L	0.00020	0.000011	1	09/20/23 15:29	09/25/23 12:57	7440-43-9	
Chromium	**0.00037J**	mg/L	0.0020	0.00014	1	09/20/23 15:29	09/25/23 12:57	7440-47-3	
Cobalt	**0.0027**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:57	7440-48-4	
Lead	**0.000037J**	mg/L	0.0010	0.000029	1	09/20/23 15:29	09/25/23 12:57	7439-92-1	
Molybdenum	**0.012**	mg/L	0.0010	0.000046	1	09/20/23 15:29	09/25/23 12:57	7439-98-7	
Selenium	**0.00021J**	mg/L	0.0010	0.00020	1	09/20/23 15:29	09/25/23 12:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/20/23 15:29	09/25/23 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	ug/L	0.20	0.12	1	09/21/23 19:15	09/22/23 11:22	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	**782**	mg/L	10.0	10.0	1		09/21/23 14:41		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.6**	Std. Units	0.10	0.10	1		10/02/23 13:43		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-51B-091923 **Lab ID: 50354261001** Collected: 09/19/23 11:05 Received: 09/20/23 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	**44.7**	mg/L	2.5	0.67	10		09/30/23 18:33	16887-00-6	
Fluoride	**1.0**	mg/L	0.050	0.017	1		09/30/23 18:16	16984-48-8	
Sulfate	**1430**	mg/L	25.0	19.0	100		10/04/23 00:41	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	**7.4**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 12:13	7440-42-8	
Calcium	**199**	mg/L	1.0	0.057	1	09/20/23 22:07	09/23/23 12:13	7440-70-2	
Lithium	**0.056**	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 12:13	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	09/26/23 07:30	09/27/23 15:37	7440-36-0	
Arsenic	**0.0042**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 15:37	7440-38-2	
Barium	**0.050**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 15:37	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/27/23 15:37	7440-41-7	
Cadmium	**0.000023J**	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 15:37	7440-43-9	
Chromium	**0.00055J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 15:37	7440-47-3	
Cobalt	**0.00036J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 15:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 15:37	7439-92-1	
Molybdenum	**0.13**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 15:37	7439-98-7	
Selenium	**0.00049J**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 15:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 15:37	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	ug/L	0.20	0.091	1	09/22/23 11:58	09/24/23 19:56	7439-97-6	1d
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	**2120**	mg/L	40.0	40.0	1		09/25/23 15:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.7**	Std. Units	0.10	0.10	1		10/02/23 14:03		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-08-091923 **Lab ID: 50354261002** Collected: 09/19/23 12:40 Received: 09/20/23 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	**57.5**	mg/L	2.5	0.67	10		10/04/23 01:12	16887-00-6	
Fluoride	**1.7**	mg/L	0.050	0.017	1		09/26/23 19:13	16984-48-8	
Sulfate	**494**	mg/L	25.0	19.0	100		10/04/23 01:28	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	**1.6**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 12:14	7440-42-8	
Calcium	**253**	mg/L	2.0	0.11	2	09/20/23 22:07	09/23/23 12:31	7440-70-2	
Lithium	**0.013J**	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 12:14	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	**0.00077J**	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 15:40	7440-36-0	
Arsenic	**0.0025**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 15:40	7440-38-2	
Barium	**0.051**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 15:40	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/27/23 15:40	7440-41-7	
Cadmium	**0.000080J**	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 15:40	7440-43-9	
Chromium	**0.00023J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 15:40	7440-47-3	
Cobalt	**0.0044**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 15:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 15:40	7439-92-1	
Molybdenum	**0.057**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 15:40	7439-98-7	
Selenium	**0.0081**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 15:40	7782-49-2	
Thallium	**0.00019J**	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 15:40	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	ug/L	0.20	0.091	1	09/22/23 11:58	09/24/23 19:59	7439-97-6	1d
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	**1290**	mg/L	20.0	20.0	1		09/25/23 15:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.0**	Std. Units	0.10	0.10	1		10/02/23 14:04		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-08B-091923 **Lab ID: 50354261003** Collected: 09/19/23 13:55 Received: 09/20/23 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	**219**	mg/L	25.0	6.7	100		09/30/23 19:24	16887-00-6	
Fluoride	**1.4**	mg/L	0.050	0.017	1		09/26/23 19:48	16984-48-8	
Sulfate	**1160**	mg/L	25.0	19.0	100		09/30/23 19:24	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	**15.5**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 12:16	7440-42-8	
Calcium	**216**	mg/L	2.0	0.11	2	09/20/23 22:07	09/23/23 12:33	7440-70-2	
Lithium	**0.0091J**	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 12:16	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	ND	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 15:51	7440-36-0	
Arsenic	**0.00049J**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 15:51	7440-38-2	
Barium	**0.050**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 15:51	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/27/23 15:51	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 15:51	7440-43-9	
Chromium	**0.00045J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 15:51	7440-47-3	
Cobalt	**0.00036J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 15:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 15:51	7439-92-1	
Molybdenum	**0.014**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 15:51	7439-98-7	
Selenium	**0.00044J**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 15:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 15:51	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	ug/L	0.20	0.091	1	09/22/23 11:58	09/24/23 20:08	7439-97-6	1d
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	**2310**	mg/L	40.0	40.0	1		09/25/23 15:51		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		10/02/23 14:05		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: FD-03-091923 **Lab ID: 50354261004** Collected: 09/19/23 12:00 Received: 09/20/23 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	**46.4**	mg/L	2.5	0.67	10		10/04/23 02:00	16887-00-6	
Fluoride	**0.94**	mg/L	0.050	0.017	1		09/26/23 20:22	16984-48-8	
Sulfate	**1270**	mg/L	25.0	19.0	100		10/04/23 02:15	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	**7.4**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 12:20	7440-42-8	
Calcium	**200**	mg/L	1.0	0.057	1	09/20/23 22:07	09/23/23 12:20	7440-70-2	
Lithium	**0.056**	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 12:20	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	09/26/23 07:30	09/27/23 15:54	7440-36-0	
Arsenic	**0.0042**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 15:54	7440-38-2	
Barium	**0.049**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 15:54	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/27/23 15:54	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 15:54	7440-43-9	
Chromium	**0.00056J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 15:54	7440-47-3	
Cobalt	**0.00040J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 15:54	7439-92-1	
Molybdenum	**0.13**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 15:54	7439-98-7	
Selenium	**0.00050J**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 15:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 15:54	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	ug/L	0.20	0.091	1	09/22/23 11:58	09/24/23 20:11	7439-97-6	1d
2540C Total Dissolved Solids	Analytical Method: SM 2540C Initial Volume/Weight: 25 mL Final Volume/Weight: 100 mL Pace Analytical Services - Indianapolis								
Total Dissolved Solids	**2040**	mg/L	40.0	40.0	1		09/25/23 15:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		10/02/23 14:07		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: FB-04-091923 **Lab ID: 50354261005** Collected: 09/19/23 14:10 Received: 09/20/23 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	ND	mg/L	0.25	0.067	1		09/26/23 20:56	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		09/26/23 20:56	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		09/26/23 20:56	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	**0.019J**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 12:22	7440-42-8	
Calcium	ND	mg/L	1.0	0.057	1	09/20/23 22:07	09/23/23 12:22	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 12:22	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	09/26/23 07:30	09/27/23 15:57	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 15:57	7440-38-2	
Barium	**0.00056J**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 15:57	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/27/23 15:57	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 15:57	7440-43-9	
Chromium	**0.00024J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 15:57	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 15:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 15:57	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 15:57	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 15:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 15:57	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	ug/L	0.20	0.091	1	09/22/23 11:58	09/24/23 20:13	7439-97-6	1d
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		09/25/23 15:52		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.8**	Std. Units	0.10	0.10	1		10/03/23 16:34		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-60-091923 **Lab ID: 50354261006** Collected: 09/19/23 11:05 Received: 09/20/23 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	**27.1**	mg/L	2.5	0.67	10		09/30/23 20:50	16887-00-6	
Fluoride	**0.45**	mg/L	0.050	0.017	1		09/26/23 21:31	16984-48-8	
Sulfate	**517**	mg/L	25.0	19.0	100		09/30/23 21:08	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	**1.5**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 12:23	7440-42-8	
Calcium	**267**	mg/L	2.0	0.11	2	09/20/23 22:07	09/23/23 12:34	7440-70-2	
Lithium	**0.0073J**	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 12:23	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	**0.00020J**	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 16:01	7440-36-0	
Arsenic	**0.00033J**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 16:01	7440-38-2	
Barium	**0.031**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 16:01	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/27/23 16:01	7440-41-7	
Cadmium	**0.000032J**	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 16:01	7440-43-9	
Chromium	**0.0019J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 16:01	7440-47-3	
Cobalt	**0.0011**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 16:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 16:01	7439-92-1	
Molybdenum	**0.019**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 16:01	7439-98-7	
Selenium	**0.0021**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 16:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 16:01	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	ug/L	0.20	0.091	1	09/22/23 11:58	09/24/23 20:16	7439-97-6	1d
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	**1160**	mg/L	20.0	20.0	1		09/25/23 15:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		10/03/23 16:26		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-60B-091923 **Lab ID: 50354261007** Collected: 09/19/23 12:20 Received: 09/20/23 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	**9.2**	mg/L	0.25	0.067	1		09/26/23 22:39	16887-00-6	
Fluoride	**0.41**	mg/L	0.050	0.017	1		09/26/23 22:39	16984-48-8	
Sulfate	**1040**	mg/L	25.0	19.0	100		09/30/23 21:25	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	**4.3**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 12:25	7440-42-8	
Calcium	**368**	mg/L	3.0	0.17	3	09/20/23 22:07	09/23/23 12:39	7440-70-2	
Lithium	**0.064**	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 12:25	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	ND	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 16:15	7440-36-0	
Arsenic	**0.00019J**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 16:15	7440-38-2	
Barium	**0.062**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 16:15	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 09:46	7440-41-7	
Cadmium	**0.000022J**	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 16:15	7440-43-9	
Chromium	**0.00030J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 16:15	7440-47-3	
Cobalt	**0.00057J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 16:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 16:15	7439-92-1	
Molybdenum	**0.15**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 16:15	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 16:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 16:15	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	ug/L	0.20	0.091	1	09/22/23 11:58	09/24/23 20:18	7439-97-6	1d
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	**1730**	mg/L	20.0	20.0	1		09/25/23 15:52		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		10/03/23 16:28		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-59-091923 **Lab ID: 50354261008** Collected: 09/19/23 13:20 Received: 09/20/23 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	**5.7**	mg/L	0.25	0.067	1		09/26/23 23:14	16887-00-6	
Fluoride	**0.70**	mg/L	0.050	0.017	1		09/26/23 23:14	16984-48-8	
Sulfate	**549**	mg/L	25.0	19.0	100		09/30/23 21:42	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	**0.50**	mg/L	0.10	0.011	1	09/20/23 22:07	09/23/23 12:26	7440-42-8	
Calcium	**265**	mg/L	2.0	0.11	2	09/20/23 22:07	09/23/23 12:40	7440-70-2	
Lithium	**0.0099J**	mg/L	0.020	0.0051	1	09/20/23 22:07	09/23/23 12:26	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	09/26/23 07:30	09/27/23 16:18	7440-36-0	
Arsenic	**0.0012**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 16:18	7440-38-2	
Barium	**0.069**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 09:50	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 16:18	7440-43-9	
Chromium	**0.00038J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 16:18	7440-47-3	
Cobalt	**0.00083J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 16:18	7439-92-1	
Molybdenum	**0.025**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 16:18	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 16:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 16:18	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	ug/L	0.20	0.091	1	09/22/23 11:58	09/24/23 20:21	7439-97-6	1d
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	**1050**	mg/L	20.0	20.0	1		09/25/23 15:53		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		10/03/23 16:29		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-16R-092023 **Lab ID: 50354383001** Collected: 09/20/23 10:45 Received: 09/21/23 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	**44.3**	mg/L	2.5	0.67	10		09/27/23 18:19	16887-00-6	
Fluoride	**0.65**	mg/L	0.050	0.017	1		09/27/23 18:02	16984-48-8	
Sulfate	**181**	mg/L	2.5	1.9	10		09/27/23 18:19	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	**6.1**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:19	7440-42-8	
Calcium	**137**	mg/L	1.0	0.057	1	09/25/23 08:27	09/29/23 11:19	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:19	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	09/26/23 07:30	09/27/23 16:21	7440-36-0	
Arsenic	**0.0068**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 16:21	7440-38-2	
Barium	**0.038**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 16:21	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 09:53	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 16:21	7440-43-9	
Chromium	**0.00031J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 16:21	7440-47-3	
Cobalt	**0.0012**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 16:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 16:21	7439-92-1	
Molybdenum	**0.042**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 16:21	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 16:21	7782-49-2	
Thallium	**0.000066J**	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 16:21	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	ug/L	0.20	0.12	1	09/25/23 19:55	09/26/23 09:42	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	**656**	mg/L	10.0	10.0	1		09/27/23 12:20		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		10/03/23 16:35		H3

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(317)228-3100

ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-16BR-092023 **Lab ID: 50354383002** Collected: 09/20/23 12:10 Received: 09/21/23 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	**245**	mg/L	2.5	0.67	10		09/27/23 16:36	16887-00-6	
Fluoride	**0.75**	mg/L	0.050	0.017	1		09/27/23 16:19	16984-48-8	
Sulfate	**786**	mg/L	25.0	19.0	100		10/01/23 10:15	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	**12.9**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:26	7440-42-8	
Calcium	**265**	mg/L	2.0	0.11	2	09/25/23 08:27	09/29/23 11:53	7440-70-2	
Lithium	**0.012J**	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:26	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	09/26/23 07:30	09/27/23 16:55	7440-36-0	
Arsenic	**0.0023**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 16:55	7440-38-2	
Barium	**0.026**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 16:55	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 10:20	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 16:55	7440-43-9	
Chromium	**0.00049J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 16:55	7440-47-3	
Cobalt	**0.00042J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 16:55	7440-48-4	
Lead	**0.00012J**	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 16:55	7439-92-1	
Molybdenum	**0.0060**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 16:55	7439-98-7	
Selenium	**0.00037J**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 16:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 16:55	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	ug/L	0.20	0.12	1	09/25/23 19:55	09/26/23 09:54	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	**1860**	mg/L	20.0	20.0	1		09/27/23 12:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		10/03/23 16:41		H3

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-59B-092023 **Lab ID: 50354383003** Collected: 09/20/23 11:45 Received: 09/21/23 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	**14.0**	mg/L	0.25	0.067	1		09/27/23 16:53	16887-00-6	
Fluoride	**0.46**	mg/L	0.050	0.017	1		09/27/23 16:53	16984-48-8	
Sulfate	**853**	mg/L	25.0	19.0	100		10/01/23 10:30	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	**3.0**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:28	7440-42-8	
Calcium	**184**	mg/L	1.0	0.057	1	09/25/23 08:27	09/29/23 11:28	7440-70-2	
Lithium	**0.0073J**	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:28	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	09/26/23 07:30	09/27/23 16:58	7440-36-0	
Arsenic	**0.00070J**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 16:58	7440-38-2	
Barium	**0.027**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 16:58	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 10:24	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 16:58	7440-43-9	
Chromium	**0.00067J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 16:58	7440-47-3	
Cobalt	**0.00035J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 16:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 16:58	7439-92-1	
Molybdenum	**0.043**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 16:58	7439-98-7	
Selenium	**0.00023J**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 16:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 16:58	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	ug/L	0.20	0.12	1	09/25/23 19:55	09/26/23 09:57	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	**1500**	mg/L	20.0	20.0	1		09/27/23 12:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		10/03/23 16:39		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-17-092023 **Lab ID: 50354383004** Collected: 09/20/23 13:10 Received: 09/21/23 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	**35.8**	mg/L	2.5	0.67	10		09/27/23 21:28	16887-00-6	
Fluoride	**1.4**	mg/L	0.050	0.017	1		09/27/23 21:11	16984-48-8	
Sulfate	**348**	mg/L	2.5	1.9	10		09/27/23 21:28	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	**8.0**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:29	7440-42-8	
Calcium	**172**	mg/L	1.0	0.057	1	09/25/23 08:27	09/29/23 11:29	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:29	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	**0.00026J**	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 17:02	7440-36-0	
Arsenic	**0.0025**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 17:02	7440-38-2	
Barium	**0.059**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 17:02	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 10:27	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 17:02	7440-43-9	
Chromium	**0.00067J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 17:02	7440-47-3	
Cobalt	**0.00028J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 17:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 17:02	7439-92-1	
Molybdenum	**0.012**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 17:02	7439-98-7	
Selenium	**0.0072**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 17:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 17:02	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	ug/L	0.20	0.12	1	09/25/23 19:55	09/26/23 09:59	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	**843**	mg/L	10.0	10.0	1		09/27/23 12:21		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		10/03/23 16:43		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-09-092123 **Lab ID: 50354467001** Collected: 09/21/23 10:55 Received: 09/22/23 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	**21.7**	mg/L	2.5	0.67	10		09/27/23 23:45	16887-00-6	
Fluoride	**0.27**	mg/L	0.050	0.017	1		09/27/23 23:28	16984-48-8	
Sulfate	**489**	mg/L	2.5	1.9	10		09/27/23 23:45	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	**1.9**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:37	7440-42-8	
Calcium	**220**	mg/L	2.0	0.11	2	09/25/23 08:27	09/29/23 11:56	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:37	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	ND	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 17:05	7440-36-0	
Arsenic	**0.00020J**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 17:05	7440-38-2	
Barium	**0.040**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 17:05	7440-39-3	
Beryllium	**0.00029**	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 10:31	7440-41-7	
Cadmium	**0.00010J**	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 17:05	7440-43-9	
Chromium	**0.00082J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/27/23 17:05	7440-47-3	
Cobalt	**0.00044J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 17:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 17:05	7439-92-1	
Molybdenum	**0.043**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 17:05	7439-98-7	
Selenium	**0.0079**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 17:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 17:05	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	ug/L	0.20	0.091	1	09/26/23 10:43	09/26/23 19:07	7439-97-6	2d
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	**957**	mg/L	10.0	10.0	1		09/28/23 15:35		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.6**	Std. Units	0.10	0.10	1		10/04/23 14:31		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-09B-092123 **Lab ID: 50354467002** Collected: 09/21/23 12:05 Received: 09/22/23 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	**126**	mg/L	2.5	0.67	10		09/28/23 00:54	16887-00-6	
Fluoride	**0.84**	mg/L	0.050	0.017	1		10/06/23 06:59	16984-48-8	
Sulfate	**944**	mg/L	25.0	19.0	100		10/01/23 11:18	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	**8.5**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:42	7440-42-8	
Calcium	**291**	mg/L	2.0	0.11	2	09/25/23 08:27	09/29/23 12:01	7440-70-2	
Lithium	**0.0075J**	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:42	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	ND	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 17:16	7440-36-0	
Arsenic	**0.0018**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 17:16	7440-38-2	
Barium	**0.058**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 17:16	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 10:41	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 17:16	7440-43-9	
Chromium	**0.00025J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/28/23 10:41	7440-47-3	
Cobalt	**0.00078J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 17:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 17:16	7439-92-1	
Molybdenum	**0.016**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 17:16	7439-98-7	
Selenium	**0.00060J**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 17:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 17:16	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	ug/L	0.20	0.091	1	09/26/23 10:43	09/26/23 19:09	7439-97-6	2d
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	**1740**	mg/L	20.0	20.0	1		09/28/23 15:35		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		10/04/23 14:32		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-18-092123 **Lab ID: 50354467003** Collected: 09/21/23 13:30 Received: 09/22/23 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	**70.7**	mg/L	2.5	0.67	10		09/28/23 01:28	16887-00-6	
Fluoride	**0.13**	mg/L	0.050	0.017	1		09/28/23 01:11	16984-48-8	
Sulfate	**967**	mg/L	25.0	19.0	100		10/01/23 11:33	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	**5.4**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:44	7440-42-8	
Calcium	**395**	mg/L	2.0	0.11	2	09/25/23 08:27	09/29/23 12:03	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:44	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	**0.00012J**	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 17:19	7440-36-0	
Arsenic	**0.00082J**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 17:19	7440-38-2	
Barium	**0.036**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 17:19	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 10:44	7440-41-7	
Cadmium	**0.00010J**	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 17:19	7440-43-9	
Chromium	**0.0010J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/28/23 10:44	7440-47-3	
Cobalt	**0.00066J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 17:19	7440-48-4	
Lead	**0.00021J**	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 17:19	7439-92-1	
Molybdenum	**0.18**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 17:19	7439-98-7	
Selenium	**0.050**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 17:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 17:19	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	ug/L	0.20	0.091	1	09/26/23 10:43	09/26/23 19:19	7439-97-6	2d
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	**1810**	mg/L	20.0	20.0	1		09/28/23 15:36		
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		10/04/23 14:33		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: FB-03-092123 **Lab ID: 50354467004** Collected: 09/21/23 10:55 Received: 09/22/23 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	ND	mg/L	0.25	0.067	1		09/28/23 01:45	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		09/28/23 01:45	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		09/28/23 01:45	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	**0.022J**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:45	7440-42-8	
Calcium	ND	mg/L	1.0	0.057	1	09/25/23 08:27	09/29/23 11:45	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:45	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	ND	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 17:23	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 17:23	7440-38-2	
Barium	**0.00042J**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 17:23	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 10:51	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 17:23	7440-43-9	
Chromium	**0.00027J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/28/23 10:51	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 17:23	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 17:23	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 17:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 17:23	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	ug/L	0.20	0.091	1	09/26/23 10:43	09/26/23 19:22	7439-97-6	2d
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		09/28/23 15:36		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**8.5**	Std. Units	0.10	0.10	1		10/04/23 14:34		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: FD-04-092123 **Lab ID: 50354467005** Collected: 09/21/23 12:00 Received: 09/22/23 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	**70.4**	mg/L	2.5	0.67	10		09/28/23 02:37	16887-00-6	
Fluoride	**0.13**	mg/L	0.050	0.017	1		09/28/23 02:20	16984-48-8	
Sulfate	**958**	mg/L	25.0	19.0	100		10/01/23 11:49	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	**5.6**	mg/L	0.10	0.011	1	09/25/23 08:27	09/29/23 11:47	7440-42-8	
Calcium	**398**	mg/L	2.0	0.11	2	09/25/23 08:27	09/29/23 12:05	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/25/23 08:27	09/29/23 11:47	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	**0.00012J**	mg/L	0.0010	0.000080	1	09/26/23 07:30	09/27/23 17:26	7440-36-0	
Arsenic	**0.00084J**	mg/L	0.0010	0.00012	1	09/26/23 07:30	09/27/23 17:26	7440-38-2	
Barium	**0.036**	mg/L	0.0010	0.000065	1	09/26/23 07:30	09/27/23 17:26	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 07:30	09/28/23 10:48	7440-41-7	
Cadmium	**0.00011J**	mg/L	0.00020	0.000016	1	09/26/23 07:30	09/27/23 17:26	7440-43-9	
Chromium	**0.0011J**	mg/L	0.0020	0.00018	1	09/26/23 07:30	09/28/23 10:48	7440-47-3	
Cobalt	**0.00068J**	mg/L	0.0010	0.000071	1	09/26/23 07:30	09/27/23 17:26	7440-48-4	
Lead	**0.00024J**	mg/L	0.0010	0.000068	1	09/26/23 07:30	09/27/23 17:26	7439-92-1	
Molybdenum	**0.18**	mg/L	0.0010	0.000074	1	09/26/23 07:30	09/27/23 17:26	7439-98-7	
Selenium	**0.049**	mg/L	0.0010	0.00019	1	09/26/23 07:30	09/27/23 17:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 07:30	09/27/23 17:26	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	ug/L	0.20	0.091	1	09/26/23 10:43	09/26/23 19:24	7439-97-6	2d
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	**1810**	mg/L	20.0	20.0	1		09/28/23 15:36		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		10/04/23 14:34		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-18B-092223 **Lab ID: 50354592001** Collected: 09/22/23 10:40 Received: 09/23/23 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	**133**	mg/L	25.0	6.7	100		10/10/23 10:47	16887-00-6	
Fluoride	**0.98**	mg/L	0.050	0.017	1		10/01/23 20:10	16984-48-8	
Sulfate	**1110**	mg/L	25.0	19.0	100		10/10/23 10:47	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	**11.5**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 16:26	7440-42-8	
Calcium	**354**	mg/L	3.0	0.17	3	09/27/23 08:13	10/05/23 17:09	7440-70-2	
Lithium	**0.021**	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 16:26	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	09/26/23 15:25	10/02/23 20:42	7440-36-0	
Arsenic	**0.0027**	mg/L	0.0010	0.00012	1	09/26/23 15:25	10/02/23 20:42	7440-38-2	
Barium	**0.027**	mg/L	0.0010	0.000065	1	09/26/23 15:25	10/02/23 20:42	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 15:25	10/02/23 20:42	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	09/26/23 15:25	10/02/23 20:42	7440-43-9	
Chromium	**0.00029J**	mg/L	0.0020	0.00018	1	09/26/23 15:25	10/02/23 20:42	7440-47-3	
Cobalt	**0.00044J**	mg/L	0.0010	0.000071	1	09/26/23 15:25	10/02/23 20:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 15:25	10/02/23 20:42	7439-92-1	
Molybdenum	**0.015**	mg/L	0.0010	0.000074	1	09/26/23 15:25	10/02/23 20:42	7439-98-7	
Selenium	**0.00024J**	mg/L	0.0010	0.00019	1	09/26/23 15:25	10/02/23 20:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 15:25	10/02/23 20:42	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 21:35	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	**2090**	mg/L	20.0	20.0	1		09/28/23 15:57		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**6.1**	Std. Units	0.10	0.10	1		10/04/23 14:46		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-56-092223 **Lab ID: 50354592002** Collected: 09/22/23 12:00 Received: 09/23/23 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	**12.5**	mg/L	0.25	0.067	1		10/01/23 21:19	16887-00-6	
Fluoride	**0.67**	mg/L	0.050	0.017	1		10/01/23 21:19	16984-48-8	
Sulfate	**65.8**	mg/L	2.5	1.9	10		10/01/23 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	**0.36**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 16:27	7440-42-8	
Calcium	**100**	mg/L	1.0	0.057	1	09/27/23 08:13	10/05/23 16:27	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 16:27	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	**0.00015J**	mg/L	0.0010	0.000080	1	09/26/23 15:25	10/02/23 20:45	7440-36-0	
Arsenic	**0.00091J**	mg/L	0.0010	0.00012	1	09/26/23 15:25	10/02/23 20:45	7440-38-2	
Barium	**0.033**	mg/L	0.0010	0.000065	1	09/26/23 15:25	10/02/23 20:45	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 15:25	10/02/23 20:45	7440-41-7	
Cadmium	**0.000030J**	mg/L	0.00020	0.000016	1	09/26/23 15:25	10/02/23 20:45	7440-43-9	
Chromium	**0.00033J**	mg/L	0.0020	0.00018	1	09/26/23 15:25	10/02/23 20:45	7440-47-3	
Cobalt	**0.0023**	mg/L	0.0010	0.000071	1	09/26/23 15:25	10/02/23 20:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 15:25	10/02/23 20:45	7439-92-1	
Molybdenum	**0.0097**	mg/L	0.0010	0.000074	1	09/26/23 15:25	10/02/23 20:45	7439-98-7	
Selenium	**0.00078J**	mg/L	0.0010	0.00019	1	09/26/23 15:25	10/02/23 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 15:25	10/02/23 20:45	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 21:43	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	**435**	mg/L	10.0	10.0	1		09/28/23 15:57		
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		10/04/23 14:47		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: FD-05-092223 **Lab ID: 50354592003** Collected: 09/22/23 12:00 Received: 09/23/23 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	**12.5**	mg/L	0.25	0.067	1		10/01/23 21:54	16887-00-6	
Fluoride	**0.68**	mg/L	0.050	0.017	1		10/01/23 21:54	16984-48-8	
Sulfate	**66.5**	mg/L	2.5	1.9	10		10/01/23 22:11	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	**0.35**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 16:29	7440-42-8	
Calcium	**101**	mg/L	1.0	0.057	1	09/27/23 08:13	10/05/23 16:29	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 16:29	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	**0.00014J**	mg/L	0.0010	0.000080	1	09/26/23 15:25	10/02/23 20:49	7440-36-0	
Arsenic	**0.00087J**	mg/L	0.0010	0.00012	1	09/26/23 15:25	10/02/23 20:49	7440-38-2	
Barium	**0.032**	mg/L	0.0010	0.000065	1	09/26/23 15:25	10/02/23 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	09/26/23 15:25	10/02/23 20:49	7440-41-7	
Cadmium	**0.000028J**	mg/L	0.00020	0.000016	1	09/26/23 15:25	10/02/23 20:49	7440-43-9	
Chromium	**0.00030J**	mg/L	0.0020	0.00018	1	09/26/23 15:25	10/02/23 20:49	7440-47-3	
Cobalt	**0.0023**	mg/L	0.0010	0.000071	1	09/26/23 15:25	10/02/23 20:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	09/26/23 15:25	10/02/23 20:49	7439-92-1	
Molybdenum	**0.0095**	mg/L	0.0010	0.000074	1	09/26/23 15:25	10/02/23 20:49	7439-98-7	
Selenium	**0.00079J**	mg/L	0.0010	0.00019	1	09/26/23 15:25	10/02/23 20:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	09/26/23 15:25	10/02/23 20:49	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 21:50	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	**391**	mg/L	10.0	10.0	1		09/28/23 16:05		
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		10/04/23 14:48		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-54-092523 **Lab ID: 50354669001** Collected: 09/25/23 11:05 Received: 09/26/23 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	**17.8**	mg/L	2.5	0.67	10		10/03/23 16:38	16887-00-6	
Fluoride	**0.35**	mg/L	0.050	0.017	1		10/03/23 16:21	16984-48-8	
Sulfate	**192**	mg/L	2.5	1.9	10		10/03/23 16:38	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	**0.80**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 16:55	7440-42-8	
Calcium	**128**	mg/L	1.0	0.057	1	09/27/23 08:13	10/05/23 16:55	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 16:55	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	ND	mg/L	0.0010	0.00049	1	09/28/23 07:08	09/29/23 21:58	7440-36-0	
Arsenic	**0.015**	mg/L	0.0010	0.000075	1	09/28/23 07:08	09/29/23 21:58	7440-38-2	
Barium	**0.053**	mg/L	0.0010	0.000077	1	09/28/23 07:08	09/29/23 21:58	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/28/23 07:08	09/29/23 21:58	7440-41-7	
Cadmium	**0.000026J**	mg/L	0.00020	0.000011	1	09/28/23 07:08	09/29/23 21:58	7440-43-9	
Chromium	**0.00070J**	mg/L	0.0020	0.00014	1	09/28/23 07:08	09/29/23 21:58	7440-47-3	
Cobalt	**0.00068J**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 21:58	7440-48-4	
Lead	**0.000063J**	mg/L	0.0010	0.000029	1	09/28/23 07:08	09/29/23 21:58	7439-92-1	
Molybdenum	**0.040**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 21:58	7439-98-7	
Selenium	**0.00055J**	mg/L	0.0010	0.00020	1	09/28/23 07:08	09/29/23 21:58	7782-49-2	
Thallium	**0.00012J**	mg/L	0.0010	0.000040	1	09/28/23 07:08	09/29/23 21:58	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 22:02	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	**562**	mg/L	10.0	10.0	1		09/30/23 14:31		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.9**	Std. Units	0.10	0.10	1		10/04/23 16:43		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-54B-092523 **Lab ID: 50354669002** Collected: 09/25/23 12:45 Received: 09/26/23 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	**129**	mg/L	25.0	6.7	100		10/10/23 10:31	16887-00-6	
Fluoride	**0.33**	mg/L	0.050	0.017	1		10/10/23 10:15	16984-48-8	
Sulfate	**500**	mg/L	25.0	19.0	100		10/10/23 10:31	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	**5.7**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 16:57	7440-42-8	
Calcium	**221**	mg/L	2.0	0.11	2	09/27/23 08:13	10/05/23 17:10	7440-70-2	
Lithium	**0.0065J**	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 16:57	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	0.00049	1	09/28/23 07:08	09/29/23 22:28	7440-36-0	
Arsenic	**0.0038**	mg/L	0.0010	0.000075	1	09/28/23 07:08	09/29/23 22:28	7440-38-2	
Barium	**0.080**	mg/L	0.0010	0.000077	1	09/28/23 07:08	09/29/23 22:28	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/28/23 07:08	09/29/23 22:28	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/28/23 07:08	09/29/23 22:28	7440-43-9	
Chromium	**0.00040J**	mg/L	0.0020	0.00014	1	09/28/23 07:08	09/29/23 22:28	7440-47-3	
Cobalt	**0.00019J**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 22:28	7440-48-4	
Lead	**0.000035J**	mg/L	0.0010	0.000029	1	09/28/23 07:08	09/29/23 22:28	7439-92-1	
Molybdenum	**0.0092**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 22:28	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	09/28/23 07:08	09/29/23 22:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/28/23 07:08	09/29/23 22:28	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 22:05	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	**1210**	mg/L	20.0	20.0	1		09/30/23 14:32		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.5**	Std. Units	0.10	0.10	1		10/04/23 16:44		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: FB-05-092523 **Lab ID: 50354669003** Collected: 09/25/23 13:20 Received: 09/26/23 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	ND	mg/L	0.25	0.067	1		10/03/23 17:30	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		10/03/23 17:30	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		10/03/23 17:30	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	**0.013J**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 16:58	7440-42-8	
Calcium	ND	mg/L	1.0	0.057	1	09/27/23 08:13	10/05/23 16:58	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 16:58	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	09/28/23 07:08	09/29/23 21:55	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.000075	1	09/28/23 07:08	09/29/23 21:55	7440-38-2	
Barium	**0.0010**	mg/L	0.0010	0.000077	1	09/28/23 07:08	09/29/23 21:55	7440-39-3	C0
Beryllium	ND	mg/L	0.00020	0.000035	1	09/28/23 07:08	09/29/23 21:55	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/28/23 07:08	09/29/23 21:55	7440-43-9	
Chromium	**0.00029J**	mg/L	0.0020	0.00014	1	09/28/23 07:08	09/29/23 21:55	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 21:55	7440-48-4	
Lead	**0.000034J**	mg/L	0.0010	0.000029	1	09/28/23 07:08	09/29/23 21:55	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 21:55	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	09/28/23 07:08	09/29/23 21:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/28/23 07:08	09/29/23 21:55	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 22:14	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	ND	mg/L	10.0	10.0	1		09/30/23 14:32		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**8.7**	Std. Units	0.10	0.10	1		10/04/23 16:45		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-56B-092523 **Lab ID: 50354669004** Collected: 09/25/23 10:35 Received: 09/26/23 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	**58.4**	mg/L	2.5	0.67	10		10/03/23 18:57	16887-00-6	
Fluoride	**0.44**	mg/L	0.050	0.017	1		10/03/23 18:40	16984-48-8	
Sulfate	**368**	mg/L	2.5	1.9	10		10/03/23 18:57	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	**0.21**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 17:00	7440-42-8	
Calcium	**62.2**	mg/L	1.0	0.057	1	09/27/23 08:13	10/05/23 17:00	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 17:00	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	ND	mg/L	0.0010	0.00049	1	09/28/23 07:08	09/29/23 22:32	7440-36-0	
Arsenic	**0.00049J**	mg/L	0.0010	0.000075	1	09/28/23 07:08	09/29/23 22:32	7440-38-2	
Barium	**0.082**	mg/L	0.0010	0.000077	1	09/28/23 07:08	09/29/23 22:32	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/28/23 07:08	09/29/23 22:32	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/28/23 07:08	09/29/23 22:32	7440-43-9	
Chromium	**0.00041J**	mg/L	0.0020	0.00014	1	09/28/23 07:08	09/29/23 22:32	7440-47-3	
Cobalt	**0.00017J**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 22:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	09/28/23 07:08	09/29/23 22:32	7439-92-1	
Molybdenum	**0.0092**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 22:32	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	09/28/23 07:08	09/29/23 22:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/28/23 07:08	09/29/23 22:32	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 22:17	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	**924**	mg/L	20.0	20.0	1		09/30/23 14:32		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		10/04/23 16:46		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-52-092523 **Lab ID: 50354669005** Collected: 09/25/23 11:40 Received: 09/26/23 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	**70.3**	mg/L	2.5	0.67	10		10/03/23 19:32	16887-00-6	
Fluoride	**0.42**	mg/L	0.050	0.017	1		10/03/23 19:15	16984-48-8	
Sulfate	**65.5**	mg/L	2.5	1.9	10		10/03/23 19:32	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	**3.5**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 17:01	7440-42-8	
Calcium	**160**	mg/L	1.0	0.057	1	09/27/23 08:13	10/05/23 17:01	7440-70-2	
Lithium	**0.0073J**	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 17:01	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	0.00049	1	09/28/23 07:08	09/29/23 22:35	7440-36-0	
Arsenic	**0.00017J**	mg/L	0.0010	0.000075	1	09/28/23 07:08	09/29/23 22:35	7440-38-2	
Barium	**0.014**	mg/L	0.0010	0.000077	1	09/28/23 07:08	09/29/23 22:35	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/28/23 07:08	09/29/23 22:35	7440-41-7	
Cadmium	**0.000016J**	mg/L	0.00020	0.000011	1	09/28/23 07:08	09/29/23 22:35	7440-43-9	
Chromium	**0.00028J**	mg/L	0.0020	0.00014	1	09/28/23 07:08	09/29/23 22:35	7440-47-3	
Cobalt	**0.00011J**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 22:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000029	1	09/28/23 07:08	09/29/23 22:35	7439-92-1	
Molybdenum	**0.0044**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 22:35	7439-98-7	
Selenium	**0.00031J**	mg/L	0.0010	0.00020	1	09/28/23 07:08	09/29/23 22:35	7782-49-2	
Thallium	**0.00014J**	mg/L	0.0010	0.000040	1	09/28/23 07:08	09/29/23 22:35	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 22:19	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	**379**	mg/L	10.0	10.0	1		09/30/23 14:33		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		10/04/23 16:47		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-52B-092523 **Lab ID: 50354669006** Collected: 09/25/23 13:05 Received: 09/26/23 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	**97.8**	mg/L	2.5	0.67	10		10/03/23 20:07	16887-00-6	
Fluoride	**0.71**	mg/L	0.050	0.017	1		10/03/23 19:49	16984-48-8	
Sulfate	**82.3**	mg/L	2.5	1.9	10		10/03/23 20:07	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	**0.094J**	mg/L	0.10	0.011	1	09/27/23 08:13	10/05/23 17:07	7440-42-8	
Calcium	**64.1**	mg/L	1.0	0.057	1	09/27/23 08:13	10/05/23 17:07	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	09/27/23 08:13	10/05/23 17:07	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	09/28/23 07:08	09/29/23 22:38	7440-36-0	
Arsenic	**0.00061J**	mg/L	0.0010	0.000075	1	09/28/23 07:08	09/29/23 22:38	7440-38-2	
Barium	**0.084**	mg/L	0.0010	0.000077	1	09/28/23 07:08	09/29/23 22:38	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000035	1	09/28/23 07:08	09/29/23 22:38	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000011	1	09/28/23 07:08	09/29/23 22:38	7440-43-9	
Chromium	**0.00034J**	mg/L	0.0020	0.00014	1	09/28/23 07:08	09/29/23 22:38	7440-47-3	
Cobalt	**0.000060J**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 22:38	7440-48-4	
Lead	**0.000047J**	mg/L	0.0010	0.000029	1	09/28/23 07:08	09/29/23 22:38	7439-92-1	
Molybdenum	**0.012**	mg/L	0.0010	0.000046	1	09/28/23 07:08	09/29/23 22:38	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00020	1	09/28/23 07:08	09/29/23 22:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000040	1	09/28/23 07:08	09/29/23 22:38	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	ug/L	0.20	0.091	1	09/29/23 10:18	10/01/23 22:22	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	**459**	mg/L	10.0	10.0	1		09/30/23 14:33		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.1**	Std. Units	0.10	0.10	1		10/04/23 16:48		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-53-092823 **Lab ID: 50355025001** Collected: 09/28/23 11:15 Received: 09/29/23 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	**2.7**	mg/L	0.25	0.067	1		10/12/23 21:25	16887-00-6	
Fluoride	**0.053J**	mg/L	0.050	0.017	1		10/12/23 21:25	16984-48-8	
Sulfate	**44.3**	mg/L	2.5	1.9	10		10/12/23 21:42	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	**0.11**	mg/L	0.10	0.012	1	10/02/23 15:37	10/12/23 11:01	7440-42-8	
Calcium	**42.4**	mg/L	1.0	0.14	1	10/02/23 15:37	10/12/23 11:01	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	10/02/23 15:37	10/12/23 11:01	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	**0.00064J**	mg/L	0.0010	0.000044	1	10/03/23 07:08	10/04/23 05:45	7440-36-0	
Arsenic	**0.0012**	mg/L	0.0010	0.000064	1	10/03/23 07:08	10/04/23 05:45	7440-38-2	
Barium	**0.028**	mg/L	0.0010	0.000067	1	10/03/23 07:08	10/04/23 05:45	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 07:08	10/04/23 05:45	7440-41-7	
Cadmium	**0.000028J**	mg/L	0.00020	0.000016	1	10/03/23 07:08	10/04/23 05:45	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0020	0.00015	1	10/03/23 07:08	10/04/23 05:45	7440-47-3	
Cobalt	**0.00051J**	mg/L	0.0010	0.000024	1	10/03/23 07:08	10/04/23 05:45	7440-48-4	
Lead	**0.00048J**	mg/L	0.0010	0.000019	1	10/03/23 07:08	10/04/23 05:45	7439-92-1	
Molybdenum	**0.015**	mg/L	0.0010	0.000031	1	10/03/23 07:08	10/04/23 05:45	7439-98-7	
Selenium	**0.00086J**	mg/L	0.0010	0.00023	1	10/03/23 07:08	10/04/23 05:45	7782-49-2	
Thallium	**0.000067J**	mg/L	0.0010	0.000042	1	10/03/23 07:08	10/04/23 05:45	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	ug/L	0.20	0.12	1	10/09/23 13:27	10/11/23 08:47	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	**211**	mg/L	10.0	10.0	1		10/05/23 15:23		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.0**	Std. Units	0.10	0.10	1		10/13/23 14:33		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-53B-092823 **Lab ID: 50355025002** Collected: 09/28/23 12:05 Received: 09/29/23 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	**123**	mg/L	25.0	6.7	100		10/11/23 17:36	16887-00-6	
Fluoride	**0.39**	mg/L	0.050	0.017	1		10/11/23 17:03	16984-48-8	
Sulfate	**498**	mg/L	25.0	19.0	100		10/11/23 17:36	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	**4.7**	mg/L	0.10	0.012	1	10/02/23 15:37	10/12/23 11:03	7440-42-8	
Calcium	**199**	mg/L	1.0	0.14	1	10/02/23 15:37	10/12/23 11:03	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	10/02/23 15:37	10/12/23 11:03	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	ND	mg/L	0.0010	0.000044	1	10/03/23 07:08	10/04/23 05:48	7440-36-0	
Arsenic	**0.00089J**	mg/L	0.0010	0.000064	1	10/03/23 07:08	10/04/23 05:48	7440-38-2	
Barium	**0.071**	mg/L	0.0010	0.000067	1	10/03/23 07:08	10/04/23 05:48	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 07:08	10/04/23 05:48	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/03/23 07:08	10/04/23 05:48	7440-43-9	
Chromium	**0.00024J**	mg/L	0.0020	0.00015	1	10/03/23 07:08	10/04/23 05:48	7440-47-3	
Cobalt	**0.00022J**	mg/L	0.0010	0.000024	1	10/03/23 07:08	10/04/23 05:48	7440-48-4	
Lead	**0.000024J**	mg/L	0.0010	0.000019	1	10/03/23 07:08	10/04/23 05:48	7439-92-1	
Molybdenum	**0.0065**	mg/L	0.0010	0.000031	1	10/03/23 07:08	10/04/23 05:48	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/03/23 07:08	10/04/23 05:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/03/23 07:08	10/04/23 05:48	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	ug/L	0.20	0.12	1	10/09/23 13:27	10/11/23 08:49	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	**1280**	mg/L	20.0	20.0	1		10/05/23 15:23		
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		10/13/23 14:35		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-55R-092923 **Lab ID: 50355129001** Collected: 09/29/23 11:20 Received: 09/30/23 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	**40.6**	mg/L	2.5	0.67	10		10/12/23 00:05	16887-00-6	
Fluoride	**0.75**	mg/L	0.050	0.017	1		10/11/23 23:48	16984-48-8	
Sulfate	**368**	mg/L	2.5	1.9	10		10/12/23 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	**0.014J**	mg/L	0.10	0.012	1	10/02/23 15:37	10/12/23 11:59	7440-42-8	
Calcium	ND	mg/L	1.0	0.14	1	10/02/23 15:37	10/12/23 11:59	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	10/02/23 15:37	10/12/23 11:59	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	ND	mg/L	0.0010	0.000044	1	10/03/23 07:08	10/04/23 06:12	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.000064	1	10/03/23 07:08	10/04/23 06:12	7440-38-2	
Barium	**0.00044J**	mg/L	0.0010	0.000067	1	10/03/23 07:08	10/04/23 06:12	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 07:08	10/04/23 06:12	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/03/23 07:08	10/04/23 06:12	7440-43-9	
Chromium	**0.00028J**	mg/L	0.0020	0.00015	1	10/03/23 07:08	10/04/23 06:12	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000024	1	10/03/23 07:08	10/04/23 06:12	7440-48-4	
Lead	**0.000026J**	mg/L	0.0010	0.000019	1	10/03/23 07:08	10/04/23 06:12	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000031	1	10/03/23 07:08	10/04/23 06:12	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/03/23 07:08	10/04/23 06:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/03/23 07:08	10/04/23 06:12	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	ug/L	0.20	0.12	1	10/09/23 18:57	10/11/23 08:25	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	**806**	mg/L	10.0	10.0	1		10/05/23 15:25		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		10/16/23 14:10		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-55B-092923 **Lab ID: 50355129002** Collected: 09/29/23 12:50 Received: 09/30/23 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	**124**	mg/L	2.5	0.67	10		10/12/23 00:53	16887-00-6	
Fluoride	**0.24**	mg/L	0.050	0.017	1		10/12/23 00:37	16984-48-8	
Sulfate	**508**	mg/L	25.0	19.0	100		10/12/23 01:09	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	**7.6**	mg/L	0.10	0.012	1	10/02/23 15:37	10/12/23 12:02	7440-42-8	
Calcium	**191**	mg/L	1.0	0.14	1	10/02/23 15:37	10/12/23 12:02	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	10/02/23 15:37	10/12/23 12:02	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	ND	mg/L	0.0010	0.000044	1	10/03/23 07:08	10/04/23 06:15	7440-36-0	
Arsenic	**0.00018J**	mg/L	0.0010	0.000064	1	10/03/23 07:08	10/04/23 06:15	7440-38-2	
Barium	**0.054**	mg/L	0.0010	0.000067	1	10/03/23 07:08	10/04/23 06:15	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 07:08	10/04/23 06:15	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/03/23 07:08	10/04/23 06:15	7440-43-9	
Chromium	**0.00024J**	mg/L	0.0020	0.00015	1	10/03/23 07:08	10/04/23 06:15	7440-47-3	
Cobalt	**0.00021J**	mg/L	0.0010	0.000024	1	10/03/23 07:08	10/04/23 06:15	7440-48-4	
Lead	**0.000022J**	mg/L	0.0010	0.000019	1	10/03/23 07:08	10/04/23 06:15	7439-92-1	
Molybdenum	**0.0065**	mg/L	0.0010	0.000031	1	10/03/23 07:08	10/04/23 06:15	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/03/23 07:08	10/04/23 06:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/03/23 07:08	10/04/23 06:15	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	ug/L	0.20	0.12	1	10/09/23 18:57	10/11/23 08:27	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	**1190**	mg/L	20.0	20.0	1		10/05/23 15:25		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.2**	Std. Units	0.10	0.10	1		10/16/23 14:11		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-17B-100223 **Lab ID: 50355221001** Collected: 10/02/23 11:05 Received: 10/03/23 08:50 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	**156**	mg/L	2.5	0.67	10		10/14/23 00:19	16887-00-6	
Fluoride	**0.66**	mg/L	0.050	0.017	1		10/14/23 00:02	16984-48-8	
Sulfate	**834**	mg/L	25.0	19.0	100		10/14/23 00:36	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	**11.4**	mg/L	0.10	0.012	1	10/04/23 07:57	10/14/23 16:14	7440-42-8	
Calcium	**288**	mg/L	2.0	0.29	2	10/04/23 07:57	10/14/23 16:35	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	10/04/23 07:57	10/14/23 16:14	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	ND	mg/L	0.0010	0.000044	1	10/03/23 17:27	10/06/23 06:08	7440-36-0	
Arsenic	**0.0028**	mg/L	0.0010	0.000064	1	10/03/23 17:27	10/06/23 06:08	7440-38-2	
Barium	**0.069**	mg/L	0.0010	0.000067	1	10/03/23 17:27	10/06/23 06:08	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 17:27	10/06/23 06:08	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/03/23 17:27	10/06/23 06:08	7440-43-9	
Chromium	**0.00027J**	mg/L	0.0020	0.00015	1	10/03/23 17:27	10/06/23 06:08	7440-47-3	
Cobalt	**0.00026J**	mg/L	0.0010	0.000024	1	10/03/23 17:27	10/06/23 06:08	7440-48-4	
Lead	**0.000026J**	mg/L	0.0010	0.000019	1	10/03/23 17:27	10/06/23 06:08	7439-92-1	
Molybdenum	**0.016**	mg/L	0.0010	0.000031	1	10/03/23 17:27	10/06/23 06:08	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/03/23 17:27	10/06/23 06:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/03/23 17:27	10/06/23 06:08	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	ug/L	0.20	0.091	1	10/04/23 19:05	10/05/23 17:21	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	**1480**	mg/L	20.0	20.0	1		10/05/23 15:37		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.5**	Std. Units	0.10	0.10	1		10/16/23 14:17		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-68-100223 **Lab ID: 50355221002** Collected: 10/02/23 13:05 Received: 10/03/23 08:50 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	**18.7**	mg/L	0.25	0.067	1		10/14/23 00:53	16887-00-6	
Fluoride	**0.18**	mg/L	0.050	0.017	1		10/14/23 00:53	16984-48-8	
Sulfate	**63.6**	mg/L	2.5	1.9	10		10/14/23 01:10	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	**0.060J**	mg/L	0.10	0.012	1	10/04/23 07:57	10/14/23 16:16	7440-42-8	
Calcium	**63.9**	mg/L	1.0	0.14	1	10/04/23 07:57	10/14/23 16:16	7440-70-2	
Lithium	**0.0069J**	mg/L	0.020	0.0062	1	10/04/23 07:57	10/14/23 16:16	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	**0.00019J**	mg/L	0.0010	0.000044	1	10/03/23 17:27	10/06/23 06:18	7440-36-0	
Arsenic	**0.00097J**	mg/L	0.0010	0.000064	1	10/03/23 17:27	10/06/23 06:18	7440-38-2	
Barium	**0.10**	mg/L	0.0010	0.000067	1	10/03/23 17:27	10/06/23 06:18	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 17:27	10/06/23 06:18	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/03/23 17:27	10/06/23 06:18	7440-43-9	
Chromium	**0.00021J**	mg/L	0.0020	0.00015	1	10/03/23 17:27	10/06/23 06:18	7440-47-3	
Cobalt	**0.00053J**	mg/L	0.0010	0.000024	1	10/03/23 17:27	10/06/23 06:18	7440-48-4	
Lead	**0.000086J**	mg/L	0.0010	0.000019	1	10/03/23 17:27	10/06/23 06:18	7439-92-1	
Molybdenum	**0.0040**	mg/L	0.0010	0.000031	1	10/03/23 17:27	10/06/23 06:18	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/03/23 17:27	10/06/23 06:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/03/23 17:27	10/06/23 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	ug/L	0.20	0.091	1	10/04/23 19:05	10/05/23 17:24	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	**282**	mg/L	10.0	10.0	1		10/05/23 15:37		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		10/16/23 14:19		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: GAMW-68B-100223 **Lab ID: 50355221003** Collected: 10/02/23 14:35 Received: 10/03/23 08:50 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		10/14/23 01:45	16887-00-6	
Fluoride	**0.17**	mg/L	0.050	0.017	1		10/14/23 01:45	16984-48-8	
Sulfate	**46.7**	mg/L	2.5	1.9	10		10/14/23 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	**0.041J**	mg/L	0.10	0.012	1	10/04/23 07:57	10/14/23 16:19	7440-42-8	
Calcium	**41.4**	mg/L	1.0	0.14	1	10/04/23 07:57	10/14/23 16:19	7440-70-2	
Lithium	**0.0067J**	mg/L	0.020	0.0062	1	10/04/23 07:57	10/14/23 16:19	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	10/03/23 17:27	10/06/23 06:21	7440-36-0	
Arsenic	**0.00031J**	mg/L	0.0010	0.000064	1	10/03/23 17:27	10/06/23 06:21	7440-38-2	
Barium	**0.082**	mg/L	0.0010	0.000067	1	10/03/23 17:27	10/06/23 06:21	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 17:27	10/06/23 06:21	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/03/23 17:27	10/06/23 06:21	7440-43-9	
Chromium	**0.00024J**	mg/L	0.0020	0.00015	1	10/03/23 17:27	10/06/23 06:21	7440-47-3	
Cobalt	**0.000046J**	mg/L	0.0010	0.000024	1	10/03/23 17:27	10/06/23 06:21	7440-48-4	
Lead	**0.000061J**	mg/L	0.0010	0.000019	1	10/03/23 17:27	10/06/23 06:21	7439-92-1	
Molybdenum	**0.0023**	mg/L	0.0010	0.000031	1	10/03/23 17:27	10/06/23 06:21	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/03/23 17:27	10/06/23 06:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/03/23 17:27	10/06/23 06:21	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	ug/L	0.20	0.091	1	10/04/23 19:05	10/05/23 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	**203**	mg/L	10.0	10.0	1		10/05/23 15:37		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.5**	Std. Units	0.10	0.10	1		10/17/23 13:37		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: FD-06-100223 **Lab ID: 50355221004** Collected: 10/02/23 12:00 Received: 10/03/23 08:50 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	**12.9**	mg/L	0.25	0.067	1		10/14/23 04:55	16887-00-6	
Fluoride	**0.17**	mg/L	0.050	0.017	1		10/14/23 04:55	16984-48-8	
Sulfate	**46.7**	mg/L	2.5	1.9	10		10/14/23 05:10	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	**0.034J**	mg/L	0.10	0.012	1	10/04/23 07:57	10/14/23 16:22	7440-42-8	
Calcium	**41.4**	mg/L	1.0	0.14	1	10/04/23 07:57	10/14/23 16:22	7440-70-2	
Lithium	**0.0067J**	mg/L	0.020	0.0062	1	10/04/23 07:57	10/14/23 16:22	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	10/03/23 17:27	10/06/23 06:25	7440-36-0	
Arsenic	**0.00029J**	mg/L	0.0010	0.000064	1	10/03/23 17:27	10/06/23 06:25	7440-38-2	
Barium	**0.084**	mg/L	0.0010	0.000067	1	10/03/23 17:27	10/06/23 06:25	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 17:27	10/06/23 06:25	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/03/23 17:27	10/06/23 06:25	7440-43-9	
Chromium	**0.00025J**	mg/L	0.0020	0.00015	1	10/03/23 17:27	10/06/23 06:25	7440-47-3	
Cobalt	**0.000047J**	mg/L	0.0010	0.000024	1	10/03/23 17:27	10/06/23 06:25	7440-48-4	
Lead	**0.000060J**	mg/L	0.0010	0.000019	1	10/03/23 17:27	10/06/23 06:25	7439-92-1	
Molybdenum	**0.0024**	mg/L	0.0010	0.000031	1	10/03/23 17:27	10/06/23 06:25	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/03/23 17:27	10/06/23 06:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/03/23 17:27	10/06/23 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	ug/L	0.20	0.091	1	10/04/23 19:05	10/05/23 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	**205**	mg/L	10.0	10.0	1		10/05/23 15:38		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		10/17/23 13:38		H3

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ANALYTICAL RESULTS

Project: RMSGS Assessment
Pace Project No.: 50353874

Sample: FB-06-100224 **Lab ID: 50355221005** Collected: 10/02/23 14:40 Received: 10/03/23 08:50 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		10/14/23 02:33	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		10/14/23 02:33	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		10/14/23 02:33	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	0.012	1	10/04/23 07:57	10/14/23 16:30	7440-42-8	
Calcium	ND	mg/L	1.0	0.14	1	10/04/23 07:57	10/14/23 16:30	7440-70-2	
Lithium	ND	mg/L	0.020	0.0062	1	10/04/23 07:57	10/14/23 16:30	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	ND	mg/L	0.0010	0.000044	1	10/03/23 17:27	10/06/23 06:28	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.000064	1	10/03/23 17:27	10/06/23 06:28	7440-38-2	
Barium	**0.0015**	mg/L	0.0010	0.000067	1	10/03/23 17:27	10/06/23 06:28	7440-39-3	C0
Beryllium	ND	mg/L	0.00020	0.000026	1	10/03/23 17:27	10/06/23 06:28	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/03/23 17:27	10/06/23 06:28	7440-43-9	
Chromium	**0.00026J**	mg/L	0.0020	0.00015	1	10/03/23 17:27	10/06/23 06:28	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000024	1	10/03/23 17:27	10/06/23 06:28	7440-48-4	
Lead	**0.000046J**	mg/L	0.0010	0.000019	1	10/03/23 17:27	10/06/23 06:28	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000031	1	10/03/23 17:27	10/06/23 06:28	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/03/23 17:27	10/06/23 06:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/03/23 17:27	10/06/23 06:28	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	ug/L	0.20	0.091	1	10/04/23 19:05	10/05/23 17:31	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	ND	mg/L	10.0	10.0	1		10/05/23 15:38		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		10/17/23 13:38		H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753028
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004

METHOD BLANK: 3451383 Matrix: Water
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	09/16/23 19:40	
Fluoride	mg/L	ND	0.050	0.017	09/16/23 19:40	
Sulfate	mg/L	ND	0.25	0.19	09/16/23 19:40	

LABORATORY CONTROL SAMPLE: 3451384

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	0.99	99	80-120	
Sulfate	mg/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3451385 3451386

Parameter	Units	50353997003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	12.2	2.5	2.5	14.5	14.5	91	91	80-120	0	15	
Fluoride	mg/L	0.26	1	1	1.3	1.3	102	102	80-120	0	15	
Sulfate	mg/L	41.1	5	5	45.8	45.8	94	94	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753029
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353874001, 50353874002

METHOD BLANK: 3451387 Matrix: Water
Associated Lab Samples: 50353874001, 50353874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	09/16/23 19:44	
Fluoride	mg/L	ND	0.050	0.017	09/16/23 19:44	
Sulfate	mg/L	ND	0.25	0.19	09/16/23 19:44	

LABORATORY CONTROL SAMPLE: 3451388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	91	80-120	
Fluoride	mg/L	1	0.99	99	80-120	
Sulfate	mg/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3451389 3451390

Parameter	Units	50353914004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	21.7	25	25	44.6	44.6	92	92	80-120	0	15	
Fluoride	mg/L	0.15	1	1	1.1	1.1	94	95	80-120	1	15	
Sulfate	mg/L	11.3	5	5	16.0	16.0	93	93	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753497
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354089001, 50354089002, 50354089003, 50354089004

METHOD BLANK: 3453051 Matrix: Water
Associated Lab Samples: 50354089001, 50354089002, 50354089003, 50354089004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	09/22/23 08:20	
Fluoride	mg/L	ND	0.050	0.017	09/22/23 08:20	
Sulfate	mg/L	ND	0.25	0.19	09/22/23 08:20	

LABORATORY CONTROL SAMPLE: 3453052

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	0.98	98	80-120	
Sulfate	mg/L	5	4.8	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3453053 3453054

Parameter	Units	50354089001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	2.5	2.5	6.8	6.8	94	93	80-120	0	15	
Fluoride	mg/L	0.20	1	1	1.2	1.2	99	99	80-120	0	15	
Sulfate	mg/L	15.0	5	5	19.9	19.9	98	98	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753498
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50354175001

METHOD BLANK: 3453056 Matrix: Water
Associated Lab Samples: 50354175001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	09/24/23 04:30	
Fluoride	mg/L	ND	0.050	0.017	09/24/23 04:30	
Sulfate	mg/L	ND	0.25	0.19	09/24/23 04:30	

LABORATORY CONTROL SAMPLE: 3453057

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	1.0	102	80-120	
Sulfate	mg/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3453058 3453059

Parameter	Units	50354221002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	185	25	25	204	204	77	76	80-120	0	15	M0
Fluoride	mg/L	0.36	1	1	1.4	1.4	100	101	80-120	1	15	
Sulfate	mg/L	65.2	50	50	112	112	94	93	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3453060 3453061

Parameter	Units	50354237004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.2	2.5	2.5	6.4	6.4	91	91	80-120	0	15	
Fluoride	mg/L	ND	1	1	1.1	1.0	102	102	80-120	0	15	
Sulfate	mg/L	44.4	5	5	49.4	49.3	100	99	80-120	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3453062 3453063

Parameter	Units	50354238003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.3	2.5	2.5	8.7	8.7	97	96	80-120	0	15	
Fluoride	mg/L	ND	1	1	1.1	1.1	101	101	80-120	0	15	
Sulfate	mg/L	98.8	50	50	145	145	92	92	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754174
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008

METHOD BLANK: 3456523 Matrix: Water
Associated Lab Samples: 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	09/27/23 09:17	
Fluoride	mg/L	ND	0.050	0.017	09/27/23 09:17	
Sulfate	mg/L	ND	0.25	0.19	09/27/23 09:17	

LABORATORY CONTROL SAMPLE: 3456524

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	99	80-120	
Fluoride	mg/L	1	1.0	103	80-120	
Sulfate	mg/L	5	5.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456525 3456526

Parameter	Units	50354341004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.6	2.5	2.5	9.9	9.9	94	94	80-120	0	15	
Fluoride	mg/L	0.13	1	1	1.1	1.1	92	92	80-120	0	15	
Sulfate	mg/L	157	50	50	193	193	73	73	80-120	0	15	M0

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754175
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354383001, 50354383002, 50354383003, 50354383004, 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

METHOD BLANK: 3456527 Matrix: Water
Associated Lab Samples: 50354383001, 50354383002, 50354383003, 50354383004, 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	09/27/23 11:12	
Fluoride	mg/L	ND	0.050	0.017	09/27/23 11:12	
Sulfate	mg/L	ND	0.25	0.19	09/27/23 11:12	

LABORATORY CONTROL SAMPLE: 3456528

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	1.0	103	80-120	
Sulfate	mg/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456529 3456530

Parameter	Units	50354383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	44.3	25	25	68.1	67.9	95	94	80-120	0	15	
Fluoride	mg/L	0.65	1	1	1.6	1.6	96	96	80-120	0	15	
Sulfate	mg/L	181	50	50	227	227	93	92	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754343
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354592001, 50354592002, 50354592003

METHOD BLANK: 3457043 Matrix: Water
Associated Lab Samples: 50354592001, 50354592002, 50354592003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	09/27/23 11:22	
Fluoride	mg/L	ND	0.050	0.017	09/27/23 11:22	
Sulfate	mg/L	ND	0.25	0.19	09/27/23 11:22	

LABORATORY CONTROL SAMPLE: 3457044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	98	80-120	
Fluoride	mg/L	1	1.0	104	80-120	
Sulfate	mg/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3457045 3457046

Parameter	Units	50354499010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	9140 ug/L	2.5	2.5	11.3	11.3	86	88	80-120	0	15	
Fluoride	mg/L	<100 ug/L	1	1	1.0	1.0	92	92	80-120	0	15	
Sulfate	mg/L	49700 ug/L	50	50	86.3	85.8	73	72	80-120	1	15	M0

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754803
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

METHOD BLANK: 3459151 Matrix: Water
Associated Lab Samples: 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/03/23 07:35	
Fluoride	mg/L	ND	0.050	0.017	10/03/23 07:35	
Sulfate	mg/L	ND	0.25	0.19	10/03/23 07:35	

LABORATORY CONTROL SAMPLE: 3459152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	91	80-120	
Fluoride	mg/L	1	0.97	97	80-120	
Sulfate	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3459498 3459499

Parameter	Units	50354687001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	43.8	25	25	65.3	65.1	86	85	80-120	0	15	
Fluoride	mg/L	ND	1	1	0.98	0.98	92	93	80-120	0	15	
Sulfate	mg/L	76.4	50	50	118	116	83	80	80-120	1	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 756729
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355025001, 50355025002, 50355129001, 50355129002

METHOD BLANK: 3467918 Matrix: Water
Associated Lab Samples: 50355025001, 50355025002, 50355129001, 50355129002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/11/23 12:27	
Fluoride	mg/L	ND	0.050	0.017	10/11/23 12:27	
Sulfate	mg/L	ND	0.25	0.19	10/11/23 12:27	

LABORATORY CONTROL SAMPLE: 3467919

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.5	98	80-120	
Fluoride	mg/L	1	1.0	104	80-120	
Sulfate	mg/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467920 3467921

Parameter	Units	50355025001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.7	2.5	2.5	5.2	5.1	101	100	80-120	0	15	
Fluoride	mg/L	0.053J	1	1	1.0	1.0	99	98	80-120	1	15	
Sulfate	mg/L	44.3	50	50	89.6	89.2	90	90	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 757025
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

METHOD BLANK: 3469446 Matrix: Water
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/14/23 07:01	
Fluoride	mg/L	ND	0.050	0.017	10/14/23 07:01	
Sulfate	mg/L	ND	0.25	0.19	10/14/23 07:01	

LABORATORY CONTROL SAMPLE: 3469447

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469448 3469449

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

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753339
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353874001, 50353874002

METHOD BLANK: 3452390 Matrix: Water
Associated Lab Samples: 50353874001, 50353874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	09/21/23 17:12	

LABORATORY CONTROL SAMPLE: 3452391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3452392 3452393

Parameter	Units	50353951019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.091	5	5	4.4	4.2	88	85	75-125	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3452394 3452395

Parameter	Units	50353962006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.0	5.0	100	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753735
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004, 50354089001, 50354089002, 50354089003, 50354089004, 50354175001

METHOD BLANK: 3454076 Matrix: Water
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004, 50354089001, 50354089002, 50354089003, 50354089004, 50354175001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	09/22/23 10:38	

LABORATORY CONTROL SAMPLE: 3454077

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.1	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3454078 3454079

Parameter	Units	50353997003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	95	96	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3454080 3454081

Parameter	Units	50354238003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.9	95	98	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753840 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008

METHOD BLANK: 3454901 Matrix: Water
Associated Lab Samples: 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	09/24/23 19:17	

LABORATORY CONTROL SAMPLE: 3454902

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3454903 3454904

Parameter	Units	50354237004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.6	93	92	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754096
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354383001, 50354383002, 50354383003, 50354383004

METHOD BLANK: 3456294 Matrix: Water
Associated Lab Samples: 50354383001, 50354383002, 50354383003, 50354383004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	09/26/23 09:20	

LABORATORY CONTROL SAMPLE: 3456295

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456296 3456297

Parameter	Units	50354383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.6	4.6	92	92	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456298 3456299

Parameter	Units	50354509001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.8	95	96	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754285 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

METHOD BLANK: 3456881 Matrix: Water
Associated Lab Samples: 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	09/26/23 18:28	

LABORATORY CONTROL SAMPLE: 3456882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456883 3456884

Parameter	Units	50354616003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.8	4.8	96	97	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754832
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354592001, 50354592002, 50354592003, 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

METHOD BLANK: 3459280 Matrix: Water
Associated Lab Samples: 50354592001, 50354592002, 50354592003, 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	10/01/23 21:21	

LABORATORY CONTROL SAMPLE: 3459281

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3459282 3459283

Parameter	Units	50354592002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.5	94	90	75-125	4	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755670 | Analysis Method: EPA 7470
QC Batch Method: EPA 7470 | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

METHOD BLANK: 3463154 Matrix: Water
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	10/05/23 16:47	

LABORATORY CONTROL SAMPLE: 3463155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.2	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463156 3463157

Parameter	Units	50355093002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	5.1	4.9	101	99	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 756283
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355129001, 50355129002

METHOD BLANK: 3466279 Matrix: Water
Associated Lab Samples: 50355129001, 50355129002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/11/23 07:38	

LABORATORY CONTROL SAMPLE: 3466280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466281 3466282

Parameter	Units	50355101005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.7	4.8	95	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 756358
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355025001, 50355025002

METHOD BLANK: 3466519 Matrix: Water
Associated Lab Samples: 50355025001, 50355025002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/11/23 08:42	

LABORATORY CONTROL SAMPLE: 3466520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466521 3466522

Parameter	Units	50355308002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.6	4.8	93	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753049
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353874001, 50353874002

METHOD BLANK: 3451443 Matrix: Water
Associated Lab Samples: 50353874001, 50353874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	09/23/23 10:43	
Calcium	mg/L	ND	1.0	0.057	09/23/23 10:43	
Lithium	mg/L	ND	0.020	0.0051	09/23/23 10:43	

LABORATORY CONTROL SAMPLE: 3451444

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.99	99	80-120	
Calcium	mg/L	10	10.1	101	80-120	
Lithium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3451445 3451446

Parameter	Units	50353962006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	108 ug/L	1	1	1.1	1.1	96	97	75-125	0	20	
Calcium	mg/L	101000 ug/L	10	10	107	103	52	16	75-125	3	20	P6
Lithium	mg/L	ND	1	1	0.93	0.94	92	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753052
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004, 50354089001, 50354089002, 50354089003, 50354089004

METHOD BLANK: 3451463 Matrix: Water
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004, 50354089001, 50354089002, 50354089003, 50354089004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.012	09/23/23 00:53	
Calcium	mg/L	ND	1.0	0.14	09/23/23 00:53	
Lithium	mg/L	ND	0.020	0.0062	09/23/23 00:53	

LABORATORY CONTROL SAMPLE: 3451464

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	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3451465 3451466

Parameter	Units	50353997003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.21	1	1	1.1	1.2	92	99	75-125	6	20	
Calcium	mg/L	67.2	10	10	72.0	77.0	48	98	75-125	7	20	P6
Lithium	mg/L	ND	1	1	0.95	1.0	95	100	75-125	5	20	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753604
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354175001, 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008

METHOD BLANK: 3453555 Matrix: Water
Associated Lab Samples: 50354175001, 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	09/23/23 11:49	
Calcium	mg/L	ND	1.0	0.057	09/23/23 11:49	
Lithium	mg/L	ND	0.020	0.0051	09/23/23 11:49	

LABORATORY CONTROL SAMPLE: 3453556

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.91	91	80-120	
Calcium	mg/L	10	9.3	93	80-120	
Lithium	mg/L	1	0.93	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3453557 3453558

Parameter	Units	50354251004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.5	1	1	2.5	2.6	104	108	75-125	2	20	
Calcium	mg/L	264	10	10	275	279	108	144	75-125	1	20	E,P6
Lithium	mg/L	0.0080J	1	1	1.0	1.0	99	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754101
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354383001, 50354383002, 50354383003, 50354383004, 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

METHOD BLANK: 3456310 Matrix: Water
Associated Lab Samples: 50354383001, 50354383002, 50354383003, 50354383004, 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	09/29/23 11:01	
Calcium	mg/L	ND	1.0	0.057	09/29/23 11:01	
Lithium	mg/L	ND	0.020	0.0051	09/29/23 11:01	

LABORATORY CONTROL SAMPLE: 3456311

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	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456314 3456315

Parameter	Units	50354356004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	8.3	1	1	8.9	9.0	68	76	75-125	1	20	P6
Calcium	mg/L	176	10	10	177	179	12	29	75-125	1	20	P6
Lithium	mg/L	0.0057J	1	1	1.0	1.0	100	101	75-125	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456413 3456414

Parameter	Units	50354383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	6.1	1	1	7.1	6.9	103	81	75-125	3	20	
Calcium	mg/L	137	10	10	146	141	97	43	75-125	4	20	P6
Lithium	mg/L	ND	1	1	1.0	0.98	100	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754484
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354592001, 50354592002, 50354592003, 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

METHOD BLANK: 3457557 Matrix: Water
Associated Lab Samples: 50354592001, 50354592002, 50354592003, 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	10/05/23 16:16	
Calcium	mg/L	ND	1.0	0.057	10/05/23 16:16	
Lithium	mg/L	ND	0.020	0.0051	10/05/23 16:16	

LABORATORY CONTROL SAMPLE: 3457558

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	0.99	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3457559 3457560

Parameter	Units	50354666001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.79	1	1	1.8	1.7	100	93	75-125	4	20	
Calcium	mg/L	126	10	10	135	128	92	24	75-125	5	20	P6
Lithium	mg/L	ND	1	1	1.0	0.99	101	99	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755296
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355025001, 50355025002, 50355129001, 50355129002

METHOD BLANK: 3461720 Matrix: Water
Associated Lab Samples: 50355025001, 50355025002, 50355129001, 50355129002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.012	10/12/23 10:20	
Calcium	mg/L	ND	1.0	0.14	10/12/23 10:20	
Lithium	mg/L	ND	0.020	0.0062	10/12/23 10:20	

LABORATORY CONTROL SAMPLE: 3461721

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.94	94	80-120	
Calcium	mg/L	10	9.2	92	80-120	
Lithium	mg/L	1	0.97	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461722 3461723

Parameter	Units	50354927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	151 ug/L	1	1	1.2	1.1	101	95	75-125	6	20	
Calcium	mg/L	136000 ug/L	10	10	144	138	78	23	75-125	4	20	P6
Lithium	mg/L	ND	1	1	1.1	1.0	105	99	75-125	6	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755562
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

METHOD BLANK: 3462651 Matrix: Water
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.012	10/14/23 15:15	
Calcium	mg/L	ND	1.0	0.14	10/14/23 15:15	
Lithium	mg/L	ND	0.020	0.0062	10/14/23 15:15	

LABORATORY CONTROL SAMPLE: 3462652

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	100	80-120	
Calcium	mg/L	10	10.3	103	80-120	
Lithium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3462653 3462654

Parameter	Units	50355101002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	169 ug/L	1	1	1.2	1.2	101	102	75-125	1	20	
Calcium	mg/L	122000 ug/L	10	10	128	130	50	76	75-125	2	20	P6
Lithium	mg/L	ND	1	1	1.1	1.1	106	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753448
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353874001, 50353874002, 50353997001, 50353997002, 50353997003, 50353997004, 50354089001, 50354089002, 50354089003, 50354089004, 50354175001

METHOD BLANK: 3452926 Matrix: Water
Associated Lab Samples: 50353874001, 50353874002, 50353997001, 50353997002, 50353997003, 50353997004, 50354089001, 50354089002, 50354089003, 50354089004, 50354175001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00049	09/25/23 11:50	
Arsenic	mg/L	ND	0.0010	0.000075	09/25/23 11:50	
Barium	mg/L	ND	0.0010	0.000077	09/25/23 11:50	
Beryllium	mg/L	ND	0.00020	0.000035	09/25/23 11:50	
Cadmium	mg/L	ND	0.00020	0.000011	09/25/23 11:50	
Chromium	mg/L	ND	0.0020	0.00014	09/25/23 11:50	
Cobalt	mg/L	ND	0.0010	0.000046	09/25/23 11:50	
Lead	mg/L	ND	0.0010	0.000029	09/25/23 11:50	
Molybdenum	mg/L	ND	0.0010	0.000046	09/25/23 11:50	
Selenium	mg/L	ND	0.0010	0.00020	09/25/23 11:50	
Thallium	mg/L	ND	0.0010	0.000040	09/25/23 11:50	

LABORATORY CONTROL SAMPLE: 3452927

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	99	80-120	
Barium	mg/L	0.04	0.039	98	80-120	
Beryllium	mg/L	0.04	0.040	101	80-120	
Cadmium	mg/L	0.04	0.039	98	80-120	
Chromium	mg/L	0.04	0.041	102	80-120	
Cobalt	mg/L	0.04	0.042	104	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	0.040	101	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3452928 3452929

Parameter	Units	50353962006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.042	0.042	106	104	75-125	1	20	
Arsenic	mg/L	ND	0.04	0.04	0.039	0.039	96	97	75-125	1	20	
Barium	mg/L	66.7 ug/L	0.04	0.04	0.11	0.11	100	102	75-125	0	20	
Beryllium	mg/L	ND	0.04	0.04	0.040	0.040	100	100	75-125	0	20	
Cadmium	mg/L	ND	0.04	0.04	0.038	0.038	95	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3452928 3452929

Parameter	Units	50353962006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	ND	0.04	0.04	0.039	0.040	96	98	75-125	1	20	
Cobalt	mg/L	ND	0.04	0.04	0.039	0.039	97	97	75-125	0	20	
Lead	mg/L	ND	0.04	0.04	0.040	0.040	100	100	75-125	1	20	
Molybdenum	mg/L	ND	0.04	0.04	0.041	0.041	100	101	75-125	1	20	
Selenium	mg/L	1.2 ug/L	0.04	0.04	0.041	0.041	100	100	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: 3452930 3452931

Parameter	Units	50353997003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.043	0.042	106	105	75-125	1	20	
Arsenic	mg/L	0.0057	0.04	0.04	0.045	0.045	99	98	75-125	1	20	
Barium	mg/L	0.11	0.04	0.04	0.15	0.15	96	95	75-125	0	20	
Beryllium	mg/L	ND	0.04	0.04	0.041	0.041	103	103	75-125	1	20	
Cadmium	mg/L	0.000069J	0.04	0.04	0.039	0.039	97	98	75-125	0	20	
Chromium	mg/L	0.00096J	0.04	0.04	0.041	0.041	101	99	75-125	1	20	
Cobalt	mg/L	0.00067J	0.04	0.04	0.040	0.040	99	99	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	0.0033	0.04	0.04	0.043	0.043	100	100	75-125	0	20	
Selenium	mg/L	0.00041J	0.04	0.04	0.041	0.040	101	100	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.042	0.042	104	104	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754116
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008, 50354383001, 50354383002, 50354383003, 50354383004, 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

METHOD BLANK: 3456374 Matrix: Water
Associated Lab Samples: 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008, 50354383001, 50354383002, 50354383003, 50354383004, 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	09/27/23 15:30	
Arsenic	mg/L	ND	0.0010	0.00012	09/27/23 15:30	
Barium	mg/L	ND	0.0010	0.000065	09/27/23 15:30	
Beryllium	mg/L	ND	0.00020	0.000026	09/27/23 15:30	
Cadmium	mg/L	ND	0.00020	0.000016	09/27/23 15:30	
Chromium	mg/L	ND	0.0020	0.00018	09/27/23 15:30	
Cobalt	mg/L	ND	0.0010	0.000071	09/27/23 15:30	
Lead	mg/L	ND	0.0010	0.000068	09/27/23 15:30	
Molybdenum	mg/L	ND	0.0010	0.000074	09/27/23 15:30	
Selenium	mg/L	ND	0.0010	0.00019	09/27/23 15:30	
Thallium	mg/L	ND	0.0010	0.000060	09/27/23 15:30	

LABORATORY CONTROL SAMPLE: 3456375

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.041	104	80-120	
Arsenic	mg/L	0.04	0.039	98	80-120	
Barium	mg/L	0.04	0.040	100	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	0.041	104	80-120	
Cobalt	mg/L	0.04	0.039	98	80-120	
Lead	mg/L	0.04	0.041	102	80-120	
Molybdenum	mg/L	0.04	0.041	102	80-120	
Selenium	mg/L	0.04	0.040	99	80-120	
Thallium	mg/L	0.04	0.041	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456376 3456377

Parameter	Units	50354383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.042	0.042	105	106	75-125	1	20	
Arsenic	mg/L	0.0068	0.04	0.04	0.044	0.044	92	93	75-125	1	20	
Barium	mg/L	0.038	0.04	0.04	0.080	0.080	104	104	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3456376 3456377

Parameter	Units	50354383001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.04	0.04	0.037	0.037	92	93	75-125	1	20	
Cadmium	mg/L	ND	0.04	0.04	0.040	0.040	100	100	75-125	0	20	
Chromium	mg/L	0.00031J	0.04	0.04	0.042	0.041	103	103	75-125	1	20	
Cobalt	mg/L	0.0012	0.04	0.04	0.039	0.039	94	94	75-125	0	20	
Lead	mg/L	ND	0.04	0.04	0.041	0.042	103	105	75-125	2	20	
Molybdenum	mg/L	0.042	0.04	0.04	0.082	0.082	102	101	75-125	0	20	
Selenium	mg/L	ND	0.04	0.04	0.037	0.037	93	92	75-125	0	20	
Thallium	mg/L	0.000066J	0.04	0.04	0.042	0.042	104	106	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754328
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354592001, 50354592002, 50354592003

METHOD BLANK: 3457007 Matrix: Water
Associated Lab Samples: 50354592001, 50354592002, 50354592003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	10/02/23 20:25	
Arsenic	mg/L	ND	0.0010	0.00012	10/02/23 20:25	
Barium	mg/L	ND	0.0010	0.000065	10/02/23 20:25	
Beryllium	mg/L	ND	0.00020	0.000026	10/02/23 20:25	
Cadmium	mg/L	ND	0.00020	0.000016	10/02/23 20:25	
Chromium	mg/L	ND	0.0020	0.00018	10/02/23 20:25	
Cobalt	mg/L	ND	0.0010	0.000071	10/02/23 20:25	
Lead	mg/L	ND	0.0010	0.000068	10/02/23 20:25	
Molybdenum	mg/L	ND	0.0010	0.000074	10/02/23 20:25	
Selenium	mg/L	ND	0.0010	0.00019	10/02/23 20:25	
Thallium	mg/L	ND	0.0010	0.000060	10/02/23 20:25	

LABORATORY CONTROL SAMPLE: 3457008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.042	105	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	0.040	101	80-120	
Cadmium	mg/L	0.04	0.041	102	80-120	
Chromium	mg/L	0.04	0.042	105	80-120	
Cobalt	mg/L	0.04	0.041	102	80-120	
Lead	mg/L	0.04	0.041	102	80-120	
Molybdenum	mg/L	0.04	0.041	102	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: 3457009 3457010

Parameter	Units	50354489001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0022	0.04	0.04	0.045	0.044	106	105	75-125	1	20	
Arsenic	mg/L	0.0027	0.04	0.04	0.042	0.043	98	100	75-125	2	20	
Barium	mg/L	0.56	0.04	0.04	0.60	0.61	104	124	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.039	0.040	97	99	75-125	2	20	
Cadmium	mg/L	0.000029J	0.04	0.04	0.035	0.036	88	89	75-125	2	20	
Chromium	mg/L	0.00035J	0.04	0.04	0.036	0.036	88	89	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3457009 3457010

Parameter	Units	50354489001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.0021	0.04	0.04	0.037	0.037	87	88	75-125	2	20	
Lead	mg/L	ND	0.04	0.04	0.040	0.041	101	102	75-125	1	20	
Molybdenum	mg/L	0.27	0.04	0.04	0.31	0.31	105	106	75-125	0	20	
Selenium	mg/L	0.0035	0.04	0.04	0.045	0.046	104	106	75-125	2	20	
Thallium	mg/L	ND	0.04	0.04	0.040	0.040	100	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754691
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

METHOD BLANK: 3458557 Matrix: Water
Associated Lab Samples: 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00049	09/29/23 21:48	
Arsenic	mg/L	ND	0.0010	0.000075	09/29/23 21:48	
Barium	mg/L	ND	0.0010	0.000077	09/29/23 21:48	
Beryllium	mg/L	ND	0.00020	0.000035	09/29/23 21:48	
Cadmium	mg/L	ND	0.00020	0.000011	09/29/23 21:48	
Chromium	mg/L	ND	0.0020	0.00014	09/29/23 21:48	
Cobalt	mg/L	ND	0.0010	0.000046	09/29/23 21:48	
Lead	mg/L	ND	0.0010	0.000029	09/29/23 21:48	
Molybdenum	mg/L	ND	0.0010	0.000046	09/29/23 21:48	
Selenium	mg/L	ND	0.0010	0.00020	09/29/23 21:48	
Thallium	mg/L	ND	0.0010	0.000040	09/29/23 21:48	

LABORATORY CONTROL SAMPLE: 3458558

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	98	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	0.038	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	0.040	100	80-120	
Selenium	mg/L	0.04	0.039	98	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3458559 3458560

Parameter	Units	50354669001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.044	0.043	108	106	75-125	2	20	
Arsenic	mg/L	0.015	0.04	0.04	0.055	0.055	99	99	75-125	0	20	
Barium	mg/L	0.053	0.04	0.04	0.094	0.093	103	99	75-125	2	20	
Beryllium	mg/L	ND	0.04	0.04	0.041	0.040	102	101	75-125	1	20	
Cadmium	mg/L	0.000026J	0.04	0.04	0.039	0.039	98	97	75-125	1	20	
Chromium	mg/L	0.00070J	0.04	0.04	0.042	0.042	104	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3458559 3458560

Parameter	Units	50354669001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.00068J	0.04	0.04	0.041	0.041	101	102	75-125	0	20	
Lead	mg/L	0.000063J	0.04	0.04	0.042	0.041	104	103	75-125	1	20	
Molybdenum	mg/L	0.040	0.04	0.04	0.085	0.084	112	109	75-125	2	20	
Selenium	mg/L	0.00055J	0.04	0.04	0.040	0.040	100	100	75-125	0	20	
Thallium	mg/L	0.00012J	0.04	0.04	0.043	0.043	108	106	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755244
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355025001, 50355025002, 50355129001, 50355129002

METHOD BLANK: 3461526 Matrix: Water
Associated Lab Samples: 50355025001, 50355025002, 50355129001, 50355129002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000044	10/04/23 04:49	
Arsenic	mg/L	ND	0.0010	0.000064	10/04/23 04:49	
Barium	mg/L	ND	0.0010	0.000067	10/04/23 04:49	
Beryllium	mg/L	ND	0.00020	0.000026	10/04/23 04:49	
Cadmium	mg/L	ND	0.00020	0.000016	10/04/23 04:49	
Chromium	mg/L	ND	0.0020	0.00015	10/04/23 04:49	
Cobalt	mg/L	ND	0.0010	0.000024	10/04/23 04:49	
Lead	mg/L	ND	0.0010	0.000019	10/04/23 04:49	
Molybdenum	mg/L	ND	0.0010	0.000031	10/04/23 04:49	
Selenium	mg/L	ND	0.0010	0.00023	10/04/23 04:49	
Thallium	mg/L	ND	0.0010	0.000042	10/04/23 04:49	

LABORATORY CONTROL SAMPLE: 3461527

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	0.038	95	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	0.040	99	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	0.042	104	80-120	
Selenium	mg/L	0.04	0.039	98	80-120	
Thallium	mg/L	0.04	0.040	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461528 3461529

Parameter	Units	50354927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.042	0.042	104	106	75-125	2	20	
Arsenic	mg/L	111 ug/L	0.04	0.04	0.15	0.15	97	94	75-125	1	20	
Barium	mg/L	171 ug/L	0.04	0.04	0.21	0.21	99	100	75-125	0	20	E
Beryllium	mg/L	ND	0.04	0.04	0.041	0.041	102	103	75-125	0	20	
Cadmium	mg/L	ND	0.04	0.04	0.039	0.040	97	99	75-125	2	20	
Chromium	mg/L	ND	0.04	0.04	0.040	0.040	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3461528 3461529

Parameter	Units	50354927001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.04	0.04	0.038	0.039	95	96	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.041	0.041	102	102	75-125	0	20	
Molybdenum	mg/L	9.2 ug/L	0.04	0.04	0.052	0.051	106	106	75-125	0	20	
Selenium	mg/L	ND	0.04	0.04	0.041	0.040	102	100	75-125	2	20	
Thallium	mg/L	ND	0.04	0.04	0.041	0.041	103	103	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755546
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

METHOD BLANK: 3462584 Matrix: Water
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000044	10/06/23 05:05	
Arsenic	mg/L	ND	0.0010	0.000064	10/06/23 05:05	
Barium	mg/L	ND	0.0010	0.000067	10/06/23 05:05	
Beryllium	mg/L	ND	0.00020	0.000026	10/06/23 05:05	
Cadmium	mg/L	ND	0.00020	0.000016	10/06/23 05:05	
Chromium	mg/L	ND	0.0020	0.00015	10/06/23 05:05	
Cobalt	mg/L	ND	0.0010	0.000024	10/06/23 05:05	
Lead	mg/L	ND	0.0010	0.000019	10/06/23 05:05	
Molybdenum	mg/L	ND	0.0010	0.000031	10/06/23 05:05	
Selenium	mg/L	ND	0.0010	0.00023	10/06/23 05:05	
Thallium	mg/L	ND	0.0010	0.000042	10/06/23 05:05	

LABORATORY CONTROL SAMPLE: 3462585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.043	107	80-120	
Arsenic	mg/L	0.04	0.040	100	80-120	
Barium	mg/L	0.04	0.039	97	80-120	
Beryllium	mg/L	0.04	0.042	105	80-120	
Cadmium	mg/L	0.04	0.041	103	80-120	
Chromium	mg/L	0.04	0.043	106	80-120	
Cobalt	mg/L	0.04	0.040	100	80-120	
Lead	mg/L	0.04	0.041	104	80-120	
Molybdenum	mg/L	0.04	0.042	105	80-120	
Selenium	mg/L	0.04	0.039	96	80-120	
Thallium	mg/L	0.04	0.041	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3462586 3462587

Parameter	Units	50355101002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.042	0.043	105	108	75-125	2	20	
Arsenic	mg/L	6.0 ug/L	0.04	0.04	0.045	0.046	97	101	75-125	4	20	
Barium	mg/L	72.2 ug/L	0.04	0.04	0.11	0.11	100	102	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.042	0.042	105	106	75-125	1	20	
Cadmium	mg/L	ND	0.04	0.04	0.041	0.041	102	102	75-125	0	20	
Chromium	mg/L	2.6 ug/L	0.04	0.04	0.043	0.044	101	104	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3462586 3462587

Parameter	Units	50355101002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	ND	0.04	0.04	0.038	0.039	95	96	75-125	1	20	
Lead	mg/L	2.2 ug/L	0.04	0.04	0.044	0.045	105	108	75-125	2	20	
Molybdenum	mg/L	3.0 ug/L	0.04	0.04	0.044	0.046	103	107	75-125	4	20	
Selenium	mg/L	ND	0.04	0.04	0.019	0.022	48	54	75-125	12	20	M3
Thallium	mg/L	ND	0.04	0.04	0.042	0.043	106	108	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753291
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353874001, 50353874002

METHOD BLANK: 3452169 Matrix: Water
Associated Lab Samples: 50353874001, 50353874002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/19/23 12:35	

LABORATORY CONTROL SAMPLE: 3452170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	278	93	80-120	

SAMPLE DUPLICATE: 3452171

Parameter	Units	50353867004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	814	808	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753524 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004

METHOD BLANK: 3453156 Matrix: Water
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/20/23 14:03	

LABORATORY CONTROL SAMPLE: 3453157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	270	90	80-120	

SAMPLE DUPLICATE: 3453158

Parameter	Units	50353994001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	300	301	0	10	

SAMPLE DUPLICATE: 3453159

Parameter	Units	50353997003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	297	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753743 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354089001, 50354089002, 50354089003, 50354089004

METHOD BLANK: 3454142 Matrix: Water
Associated Lab Samples: 50354089001, 50354089002, 50354089003, 50354089004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/23 15:20	

LABORATORY CONTROL SAMPLE: 3454143

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

SAMPLE DUPLICATE: 3454144

Parameter	Units	50354078001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	12800	13400	4	10	

SAMPLE DUPLICATE: 3454145

Parameter	Units	50354089002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	475	475	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 753744
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354175001

METHOD BLANK: 3454146 Matrix: Water
Associated Lab Samples: 50354175001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/21/23 14:32	

LABORATORY CONTROL SAMPLE: 3454147

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

SAMPLE DUPLICATE: 3454148

Parameter	Units	50354092015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1110	1110	0	10	

SAMPLE DUPLICATE: 3454149

Parameter	Units	50354220004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	457	463	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754177 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008

METHOD BLANK: 3456533 Matrix: Water
Associated Lab Samples: 50354261001, 50354261002, 50354261003, 50354261004, 50354261005, 50354261006, 50354261007, 50354261008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/25/23 15:48	

LABORATORY CONTROL SAMPLE: 3456534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	276	92	80-120	

SAMPLE DUPLICATE: 3456535

Parameter	Units	50354238003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	467	483	3	10	

SAMPLE DUPLICATE: 3456536

Parameter	Units	50354254001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	PL

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754613 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354383001, 50354383002, 50354383003, 50354383004

METHOD BLANK: 3458285 Matrix: Water
Associated Lab Samples: 50354383001, 50354383002, 50354383003, 50354383004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/27/23 12:18	

LABORATORY CONTROL SAMPLE: 3458286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	270	90	80-120	

SAMPLE DUPLICATE: 3458287

Parameter	Units	50354353004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	332	344	4	10	

SAMPLE DUPLICATE: 3458288

Parameter	Units	50354383001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	656	653	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754860 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

METHOD BLANK: 3459405 Matrix: Water
Associated Lab Samples: 50354467001, 50354467002, 50354467003, 50354467004, 50354467005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/23 15:32	

LABORATORY CONTROL SAMPLE: 3459406

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	80-120	

SAMPLE DUPLICATE: 3459407

Parameter	Units	50354398001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	724	740	2	10	

SAMPLE DUPLICATE: 3459408

Parameter	Units	50354451002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	564	568	1	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754861
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354592001, 50354592002

METHOD BLANK: 3459409 Matrix: Water
Associated Lab Samples: 50354592001, 50354592002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/23 15:50	

LABORATORY CONTROL SAMPLE: 3459410

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

SAMPLE DUPLICATE: 3459411

Parameter	Units	50354524005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3400	3290	3	10	

SAMPLE DUPLICATE: 3459412

Parameter	Units	50354594007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	280	274	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754862
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354592003

METHOD BLANK: 3459413 Matrix: Water
Associated Lab Samples: 50354592003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/23 16:05	

LABORATORY CONTROL SAMPLE: 3459414

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	272	91	80-120	

SAMPLE DUPLICATE: 3459415

Parameter	Units	50354649005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	510	528	3	10	

SAMPLE DUPLICATE: 3459416

Parameter	Units	50354740001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	784	810	3	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755182 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

METHOD BLANK: 3461304 Matrix: Water
Associated Lab Samples: 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/30/23 14:29	

LABORATORY CONTROL SAMPLE: 3461305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	270	90	80-120	

SAMPLE DUPLICATE: 3461306

Parameter	Units	50354655001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	211	211	0	10	

SAMPLE DUPLICATE: 3461307

Parameter	Units	50354667001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1190	1190	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755910 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355025001, 50355025002, 50355129001, 50355129002

METHOD BLANK: 3464390 Matrix: Water
Associated Lab Samples: 50355025001, 50355025002, 50355129001, 50355129002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/05/23 15:20	

LABORATORY CONTROL SAMPLE: 3464391

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

SAMPLE DUPLICATE: 3464392

Parameter	Units	50354906001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2150	2150	0	10	

SAMPLE DUPLICATE: 3464393

Parameter	Units	50355017004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	219	212	3	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755913 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

METHOD BLANK: 3464401 Matrix: Water
Associated Lab Samples: 50355221001, 50355221002, 50355221003, 50355221004, 50355221005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/05/23 15:33	

LABORATORY CONTROL SAMPLE: 3464402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	288	96	80-120	

SAMPLE DUPLICATE: 3464403

Parameter	Units	50355137002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29000	31000	7	10	

SAMPLE DUPLICATE: 3464404

Parameter	Units	50355201001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	427	441	3	10	

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754506
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353874001, 50353874002

SAMPLE DUPLICATE: 3457765

Parameter	Units	50353866002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.7	6.8	1	2	H3

SAMPLE DUPLICATE: 3457766

Parameter	Units	50353228008 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.4	6.4	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 754715
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50353997001, 50353997002, 50353997003, 50353997004

SAMPLE DUPLICATE: 3458762

Parameter	Units	50353937001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.9	6.9	1	2	H3

SAMPLE DUPLICATE: 3458763

Parameter	Units	50353997003 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: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755290
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354089001, 50354089002, 50354089003

SAMPLE DUPLICATE: 3461685

Parameter	Units	50353382012 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.0	6.0	1	2	H3

SAMPLE DUPLICATE: 3461686

Parameter	Units	50354089003 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: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755292
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354089004, 50354175001, 50354261001, 50354261002, 50354261003, 50354261004

SAMPLE DUPLICATE: 3461704

Parameter	Units	50354237004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.4	0	2	H3

SAMPLE DUPLICATE: 3461705

Parameter	Units	50354261004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755549
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354261005, 50354261006, 50354261007, 50354261008, 50354383001, 50354383002, 50354383003, 50354383004

SAMPLE DUPLICATE: 3462595

Parameter	Units	50354389001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3462596

Parameter	Units	50354383001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.3	0	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755727
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354467001, 50354467002, 50354467003, 50354467004, 50354467005, 50354592001, 50354592002, 50354592003

SAMPLE DUPLICATE: 3463375

Parameter	Units	50354674001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.5	0	2	H3

SAMPLE DUPLICATE: 3463376

Parameter	Units	50354599002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.1	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 755771
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50354669001, 50354669002, 50354669003, 50354669004, 50354669005, 50354669006

SAMPLE DUPLICATE: 3463572

Parameter	Units	50354861001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.0	1	2	H3

SAMPLE DUPLICATE: 3463573

Parameter	Units	50354760002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.8	7.8	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 757201
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355025001, 50355025002

SAMPLE DUPLICATE: 3470212

Parameter	Units	50355008001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.3	1	2	H3

SAMPLE DUPLICATE: 3470213

Parameter	Units	50355008002 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.0	8.1	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 757547
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355129001, 50355129002, 50355221001, 50355221002

SAMPLE DUPLICATE: 3472014

Parameter	Units	50354398001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.1	7.2	1	2	H3

SAMPLE DUPLICATE: 3472015

Parameter	Units	50355221002 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: RMSGS Assessment
Pace Project No.: 50353874

QC Batch: 757752
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355221003, 50355221004, 50355221005

SAMPLE DUPLICATE: 3472674

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

SAMPLE DUPLICATE: 3472675

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

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QUALIFIERS

Project: RMSGS Assessment
Pace Project No.: 50353874

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 opening CRDL recovery exceeded acceptance limits (132% recovery)
2d	The opening CRDL recovery exceeded acceptance limits (143% recovery).
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.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

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(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50353874001	**GAMW-01-091323**	EPA 9056	753029		
50353874002	**GAMW-01B-091323**	EPA 9056	753029		
50353997001	**GAMW-14-091423**	EPA 9056	753028		
50353997002	**GAMW-14B-091423**	EPA 9056	753028		
50353997003	**GAMW-13-091423**	EPA 9056	753028		
50353997004	**GAMW-13B-091423**	EPA 9056	753028		
50354089001	**GAMW-12-091523**	EPA 9056	753497		
50354089002	**GAMW-12B-091523**	EPA 9056	753497		
50354089003	**GAMW-03-091523**	EPA 9056	753497		
50354089004	**GAMW-03B-091523**	EPA 9056	753497		
50354175001	**GAMW-51-091823**	EPA 9056	753498		
50354261001	**GAMW-51B-091923**	EPA 9056	754174		
50354261002	**GAMW-08-091923**	EPA 9056	754174		
50354261003	**GAMW-08B-091923**	EPA 9056	754174		
50354261004	**FD-03-091923**	EPA 9056	754174		
50354261005	**FB-04-091923**	EPA 9056	754174		
50354261006	**GAMW-60-091923**	EPA 9056	754174		
50354261007	**GAMW-60B-091923**	EPA 9056	754174		
50354261008	**GAMW-59-091923**	EPA 9056	754174		
50354383001	**GAMW-16R-092023**	EPA 9056	754175		
50354383002	**GAMW-16BR-092023**	EPA 9056	754175		
50354383003	**GAMW-59B-092023**	EPA 9056	754175		
50354383004	**GAMW-17-092023**	EPA 9056	754175		
50354467001	**GAMW-09-092123**	EPA 9056	754175		
50354467002	**GAMW-09B-092123**	EPA 9056	754175		
50354467003	**GAMW-18-092123**	EPA 9056	754175		
50354467004	**FB-03-092123**	EPA 9056	754175		
50354467005	**FD-04-092123**	EPA 9056	754175		
50354592001	**GAMW-18B-092223**	EPA 9056	754343		
50354592002	**GAMW-56-092223**	EPA 9056	754343		
50354592003	**FD-05-092223**	EPA 9056	754343		
50354669001	**GAMW-54-092523**	EPA 9056	754803		
50354669002	**GAMW-54B-092523**	EPA 9056	754803		
50354669003	**FB-05-092523**	EPA 9056	754803		
50354669004	**GAMW-56B-092523**	EPA 9056	754803		
50354669005	**GAMW-52-092523**	EPA 9056	754803		
50354669006	**GAMW-52B-092523**	EPA 9056	754803		
50355025001	**GAMW-53-092823**	EPA 9056	756729		
50355025002	**GAMW-53B-092823**	EPA 9056	756729		
50355129001	**GAMW-55R-092923**	EPA 9056	756729		
50355129002	**GAMW-55B-092923**	EPA 9056	756729		
50355221001	**GAMW-17B-100223**	EPA 9056	757025		
50355221002	**GAMW-68-100223**	EPA 9056	757025		
50355221003	**GAMW-68B-100223**	EPA 9056	757025		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355221004	**FD-06-100223**	EPA 9056	757025		
50355221005	**FB-06-100224**	EPA 9056	757025		
50353874001	**GAMW-01-091323**	EPA 3010	753049	EPA 6010	754056
50353874002	**GAMW-01B-091323**	EPA 3010	753049	EPA 6010	754056
50353997001	**GAMW-14-091423**	EPA 3010	753052	EPA 6010	754040
50353997002	**GAMW-14B-091423**	EPA 3010	753052	EPA 6010	754040
50353997003	**GAMW-13-091423**	EPA 3010	753052	EPA 6010	754040
50353997004	**GAMW-13B-091423**	EPA 3010	753052	EPA 6010	754040
50354089001	**GAMW-12-091523**	EPA 3010	753052	EPA 6010	754040
50354089002	**GAMW-12B-091523**	EPA 3010	753052	EPA 6010	754040
50354089003	**GAMW-03-091523**	EPA 3010	753052	EPA 6010	754040
50354089004	**GAMW-03B-091523**	EPA 3010	753052	EPA 6010	754040
50354175001	**GAMW-51-091823**	EPA 3010	753604	EPA 6010	754061
50354261001	**GAMW-51B-091923**	EPA 3010	753604	EPA 6010	754061
50354261002	**GAMW-08-091923**	EPA 3010	753604	EPA 6010	754061
50354261003	**GAMW-08B-091923**	EPA 3010	753604	EPA 6010	754061
50354261004	**FD-03-091923**	EPA 3010	753604	EPA 6010	754061
50354261005	**FB-04-091923**	EPA 3010	753604	EPA 6010	754061
50354261006	**GAMW-60-091923**	EPA 3010	753604	EPA 6010	754061
50354261007	**GAMW-60B-091923**	EPA 3010	753604	EPA 6010	754061
50354261008	**GAMW-59-091923**	EPA 3010	753604	EPA 6010	754061
50354383001	**GAMW-16R-092023**	EPA 3010	754101	EPA 6010	755026
50354383002	**GAMW-16BR-092023**	EPA 3010	754101	EPA 6010	755026
50354383003	**GAMW-59B-092023**	EPA 3010	754101	EPA 6010	755026
50354383004	**GAMW-17-092023**	EPA 3010	754101	EPA 6010	755026
50354467001	**GAMW-09-092123**	EPA 3010	754101	EPA 6010	755026
50354467002	**GAMW-09B-092123**	EPA 3010	754101	EPA 6010	755026
50354467003	**GAMW-18-092123**	EPA 3010	754101	EPA 6010	755026
50354467004	**FB-03-092123**	EPA 3010	754101	EPA 6010	755026
50354467005	**FD-04-092123**	EPA 3010	754101	EPA 6010	755026
50354592001	**GAMW-18B-092223**	EPA 3010	754484	EPA 6010	755970
50354592002	**GAMW-56-092223**	EPA 3010	754484	EPA 6010	755970
50354592003	**FD-05-092223**	EPA 3010	754484	EPA 6010	755970
50354669001	**GAMW-54-092523**	EPA 3010	754484	EPA 6010	755970
50354669002	**GAMW-54B-092523**	EPA 3010	754484	EPA 6010	755970
50354669003	**FB-05-092523**	EPA 3010	754484	EPA 6010	755970
50354669004	**GAMW-56B-092523**	EPA 3010	754484	EPA 6010	755970
50354669005	**GAMW-52-092523**	EPA 3010	754484	EPA 6010	755970
50354669006	**GAMW-52B-092523**	EPA 3010	754484	EPA 6010	755970
50355025001	**GAMW-53-092823**	EPA 3010	755296	EPA 6010	756954
50355025002	**GAMW-53B-092823**	EPA 3010	755296	EPA 6010	756954
50355129001	**GAMW-55R-092923**	EPA 3010	755296	EPA 6010	756954
50355129002	**GAMW-55B-092923**	EPA 3010	755296	EPA 6010	756954
50355221001	**GAMW-17B-100223**	EPA 3010	755562	EPA 6010	757373
50355221002	**GAMW-68-100223**	EPA 3010	755562	EPA 6010	757373

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355221003	**GAMW-68B-100223**	EPA 3010	755562	EPA 6010	757373
50355221004	**FD-06-100223**	EPA 3010	755562	EPA 6010	757373
50355221005	**FB-06-100224**	EPA 3010	755562	EPA 6010	757373
50353874001	**GAMW-01-091323**	EPA 200.2	753448	EPA 6020	753802
50353874002	**GAMW-01B-091323**	EPA 200.2	753448	EPA 6020	753802
50353997001	**GAMW-14-091423**	EPA 200.2	753448	EPA 6020	753802
50353997002	**GAMW-14B-091423**	EPA 200.2	753448	EPA 6020	753802
50353997003	**GAMW-13-091423**	EPA 200.2	753448	EPA 6020	753802
50353997004	**GAMW-13B-091423**	EPA 200.2	753448	EPA 6020	753802
50354089001	**GAMW-12-091523**	EPA 200.2	753448	EPA 6020	753802
50354089002	**GAMW-12B-091523**	EPA 200.2	753448	EPA 6020	753802
50354089003	**GAMW-03-091523**	EPA 200.2	753448	EPA 6020	753802
50354089004	**GAMW-03B-091523**	EPA 200.2	753448	EPA 6020	753802
50354175001	**GAMW-51-091823**	EPA 200.2	753448	EPA 6020	753802
50354261001	**GAMW-51B-091923**	EPA 200.2	754116	EPA 6020	754501
50354261002	**GAMW-08-091923**	EPA 200.2	754116	EPA 6020	754501
50354261003	**GAMW-08B-091923**	EPA 200.2	754116	EPA 6020	754501
50354261004	**FD-03-091923**	EPA 200.2	754116	EPA 6020	754501
50354261005	**FB-04-091923**	EPA 200.2	754116	EPA 6020	754501
50354261006	**GAMW-60-091923**	EPA 200.2	754116	EPA 6020	754501
50354261007	**GAMW-60B-091923**	EPA 200.2	754116	EPA 6020	754501
50354261008	**GAMW-59-091923**	EPA 200.2	754116	EPA 6020	754501
50354383001	**GAMW-16R-092023**	EPA 200.2	754116	EPA 6020	754501
50354383002	**GAMW-16BR-092023**	EPA 200.2	754116	EPA 6020	754501
50354383003	**GAMW-59B-092023**	EPA 200.2	754116	EPA 6020	754501
50354383004	**GAMW-17-092023**	EPA 200.2	754116	EPA 6020	754501
50354467001	**GAMW-09-092123**	EPA 200.2	754116	EPA 6020	754501
50354467002	**GAMW-09B-092123**	EPA 200.2	754116	EPA 6020	754501
50354467003	**GAMW-18-092123**	EPA 200.2	754116	EPA 6020	754501
50354467004	**FB-03-092123**	EPA 200.2	754116	EPA 6020	754501
50354467005	**FD-04-092123**	EPA 200.2	754116	EPA 6020	754501
50354592001	**GAMW-18B-092223**	EPA 200.2	754328	EPA 6020	754519
50354592002	**GAMW-56-092223**	EPA 200.2	754328	EPA 6020	754519
50354592003	**FD-05-092223**	EPA 200.2	754328	EPA 6020	754519
50354669001	**GAMW-54-092523**	EPA 200.2	754691	EPA 6020	754947
50354669002	**GAMW-54B-092523**	EPA 200.2	754691	EPA 6020	754947
50354669003	**FB-05-092523**	EPA 200.2	754691	EPA 6020	754947
50354669004	**GAMW-56B-092523**	EPA 200.2	754691	EPA 6020	754947
50354669005	**GAMW-52-092523**	EPA 200.2	754691	EPA 6020	754947
50354669006	**GAMW-52B-092523**	EPA 200.2	754691	EPA 6020	754947
50355025001	**GAMW-53-092823**	EPA 200.2	755244	EPA 6020	755556
50355025002	**GAMW-53B-092823**	EPA 200.2	755244	EPA 6020	755556
50355129001	**GAMW-55R-092923**	EPA 200.2	755244	EPA 6020	755556
50355129002	**GAMW-55B-092923**	EPA 200.2	755244	EPA 6020	755556
50355221001	**GAMW-17B-100223**	EPA 200.2	755546	EPA 6020	755787
50355221002	**GAMW-68-100223**	EPA 200.2	755546	EPA 6020	755787

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355221003	**GAMW-68B-100223**	EPA 200.2	755546	EPA 6020	755787
50355221004	**FD-06-100223**	EPA 200.2	755546	EPA 6020	755787
50355221005	**FB-06-100224**	EPA 200.2	755546	EPA 6020	755787
50353874001	**GAMW-01-091323**	EPA 7470	753339	EPA 7470	753812
50353874002	**GAMW-01B-091323**	EPA 7470	753339	EPA 7470	753812
50353997001	**GAMW-14-091423**	EPA 7470	753735	EPA 7470	753880
50353997002	**GAMW-14B-091423**	EPA 7470	753735	EPA 7470	753880
50353997003	**GAMW-13-091423**	EPA 7470	753735	EPA 7470	753880
50353997004	**GAMW-13B-091423**	EPA 7470	753735	EPA 7470	753880
50354089001	**GAMW-12-091523**	EPA 7470	753735	EPA 7470	753880
50354089002	**GAMW-12B-091523**	EPA 7470	753735	EPA 7470	753880
50354089003	**GAMW-03-091523**	EPA 7470	753735	EPA 7470	753880
50354089004	**GAMW-03B-091523**	EPA 7470	753735	EPA 7470	753880
50354175001	**GAMW-51-091823**	EPA 7470	753735	EPA 7470	753880
50354261001	**GAMW-51B-091923**	EPA 7470	753840	EPA 7470	754090
50354261002	**GAMW-08-091923**	EPA 7470	753840	EPA 7470	754090
50354261003	**GAMW-08B-091923**	EPA 7470	753840	EPA 7470	754090
50354261004	**FD-03-091923**	EPA 7470	753840	EPA 7470	754090
50354261005	**FB-04-091923**	EPA 7470	753840	EPA 7470	754090
50354261006	**GAMW-60-091923**	EPA 7470	753840	EPA 7470	754090
50354261007	**GAMW-60B-091923**	EPA 7470	753840	EPA 7470	754090
50354261008	**GAMW-59-091923**	EPA 7470	753840	EPA 7470	754090
50354383001	**GAMW-16R-092023**	EPA 7470	754096	EPA 7470	754302
50354383002	**GAMW-16BR-092023**	EPA 7470	754096	EPA 7470	754302
50354383003	**GAMW-59B-092023**	EPA 7470	754096	EPA 7470	754302
50354383004	**GAMW-17-092023**	EPA 7470	754096	EPA 7470	754302
50354467001	**GAMW-09-092123**	EPA 7470	754285	EPA 7470	754489
50354467002	**GAMW-09B-092123**	EPA 7470	754285	EPA 7470	754489
50354467003	**GAMW-18-092123**	EPA 7470	754285	EPA 7470	754489
50354467004	**FB-03-092123**	EPA 7470	754285	EPA 7470	754489
50354467005	**FD-04-092123**	EPA 7470	754285	EPA 7470	754489
50354592001	**GAMW-18B-092223**	EPA 7470	754832	EPA 7470	755211
50354592002	**GAMW-56-092223**	EPA 7470	754832	EPA 7470	755211
50354592003	**FD-05-092223**	EPA 7470	754832	EPA 7470	755211
50354669001	**GAMW-54-092523**	EPA 7470	754832	EPA 7470	755211
50354669002	**GAMW-54B-092523**	EPA 7470	754832	EPA 7470	755211
50354669003	**FB-05-092523**	EPA 7470	754832	EPA 7470	755211
50354669004	**GAMW-56B-092523**	EPA 7470	754832	EPA 7470	755211
50354669005	**GAMW-52-092523**	EPA 7470	754832	EPA 7470	755211
50354669006	**GAMW-52B-092523**	EPA 7470	754832	EPA 7470	755211
50355025001	**GAMW-53-092823**	EPA 7470	756358	EPA 7470	756456
50355025002	**GAMW-53B-092823**	EPA 7470	756358	EPA 7470	756456
50355129001	**GAMW-55R-092923**	EPA 7470	756283	EPA 7470	756455
50355129002	**GAMW-55B-092923**	EPA 7470	756283	EPA 7470	756455

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355221001	**GAMW-17B-100223**	EPA 7470	755670	EPA 7470	755831
50355221002	**GAMW-68-100223**	EPA 7470	755670	EPA 7470	755831
50355221003	**GAMW-68B-100223**	EPA 7470	755670	EPA 7470	755831
50355221004	**FD-06-100223**	EPA 7470	755670	EPA 7470	755831
50355221005	**FB-06-100224**	EPA 7470	755670	EPA 7470	755831
50353874001	**GAMW-01-091323**	SM 2540C	753291		
50353874002	**GAMW-01B-091323**	SM 2540C	753291		
50353997001	**GAMW-14-091423**	SM 2540C	753524		
50353997002	**GAMW-14B-091423**	SM 2540C	753524		
50353997003	**GAMW-13-091423**	SM 2540C	753524		
50353997004	**GAMW-13B-091423**	SM 2540C	753524		
50354089001	**GAMW-12-091523**	SM 2540C	753743		
50354089002	**GAMW-12B-091523**	SM 2540C	753743		
50354089003	**GAMW-03-091523**	SM 2540C	753743		
50354089004	**GAMW-03B-091523**	SM 2540C	753743		
50354175001	**GAMW-51-091823**	SM 2540C	753744		
50354261001	**GAMW-51B-091923**	SM 2540C	754177		
50354261002	**GAMW-08-091923**	SM 2540C	754177		
50354261003	**GAMW-08B-091923**	SM 2540C	754177		
50354261004	**FD-03-091923**	SM 2540C	754177		
50354261005	**FB-04-091923**	SM 2540C	754177		
50354261006	**GAMW-60-091923**	SM 2540C	754177		
50354261007	**GAMW-60B-091923**	SM 2540C	754177		
50354261008	**GAMW-59-091923**	SM 2540C	754177		
50354383001	**GAMW-16R-092023**	SM 2540C	754613		
50354383002	**GAMW-16BR-092023**	SM 2540C	754613		
50354383003	**GAMW-59B-092023**	SM 2540C	754613		
50354383004	**GAMW-17-092023**	SM 2540C	754613		
50354467001	**GAMW-09-092123**	SM 2540C	754860		
50354467002	**GAMW-09B-092123**	SM 2540C	754860		
50354467003	**GAMW-18-092123**	SM 2540C	754860		
50354467004	**FB-03-092123**	SM 2540C	754860		
50354467005	**FD-04-092123**	SM 2540C	754860		
50354592001	**GAMW-18B-092223**	SM 2540C	754861		
50354592002	**GAMW-56-092223**	SM 2540C	754861		
50354592003	**FD-05-092223**	SM 2540C	754862		
50354669001	**GAMW-54-092523**	SM 2540C	755182		
50354669002	**GAMW-54B-092523**	SM 2540C	755182		
50354669003	**FB-05-092523**	SM 2540C	755182		
50354669004	**GAMW-56B-092523**	SM 2540C	755182		
50354669005	**GAMW-52-092523**	SM 2540C	755182		
50354669006	**GAMW-52B-092523**	SM 2540C	755182		
50355025001	**GAMW-53-092823**	SM 2540C	755910		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355025002	**GAMW-53B-092823**	SM 2540C	755910		
50355129001	**GAMW-55R-092923**	SM 2540C	755910		
50355129002	**GAMW-55B-092923**	SM 2540C	755910		
50355221001	**GAMW-17B-100223**	SM 2540C	755913		
50355221002	**GAMW-68-100223**	SM 2540C	755913		
50355221003	**GAMW-68B-100223**	SM 2540C	755913		
50355221004	**FD-06-100223**	SM 2540C	755913		
50355221005	**FB-06-100224**	SM 2540C	755913		
50353874001	**GAMW-01-091323**	SM 4500-H+B	754506		
50353874002	**GAMW-01B-091323**	SM 4500-H+B	754506		
50353997001	**GAMW-14-091423**	SM 4500-H+B	754715		
50353997002	**GAMW-14B-091423**	SM 4500-H+B	754715		
50353997003	**GAMW-13-091423**	SM 4500-H+B	754715		
50353997004	**GAMW-13B-091423**	SM 4500-H+B	754715		
50354089001	**GAMW-12-091523**	SM 4500-H+B	755290		
50354089002	**GAMW-12B-091523**	SM 4500-H+B	755290		
50354089003	**GAMW-03-091523**	SM 4500-H+B	755290		
50354089004	**GAMW-03B-091523**	SM 4500-H+B	755292		
50354175001	**GAMW-51-091823**	SM 4500-H+B	755292		
50354261001	**GAMW-51B-091923**	SM 4500-H+B	755292		
50354261002	**GAMW-08-091923**	SM 4500-H+B	755292		
50354261003	**GAMW-08B-091923**	SM 4500-H+B	755292		
50354261004	**FD-03-091923**	SM 4500-H+B	755292		
50354261005	**FB-04-091923**	SM 4500-H+B	755549		
50354261006	**GAMW-60-091923**	SM 4500-H+B	755549		
50354261007	**GAMW-60B-091923**	SM 4500-H+B	755549		
50354261008	**GAMW-59-091923**	SM 4500-H+B	755549		
50354383001	**GAMW-16R-092023**	SM 4500-H+B	755549		
50354383002	**GAMW-16BR-092023**	SM 4500-H+B	755549		
50354383003	**GAMW-59B-092023**	SM 4500-H+B	755549		
50354383004	**GAMW-17-092023**	SM 4500-H+B	755549		
50354467001	**GAMW-09-092123**	SM 4500-H+B	755727		
50354467002	**GAMW-09B-092123**	SM 4500-H+B	755727		
50354467003	**GAMW-18-092123**	SM 4500-H+B	755727		
50354467004	**FB-03-092123**	SM 4500-H+B	755727		
50354467005	**FD-04-092123**	SM 4500-H+B	755727		
50354592001	**GAMW-18B-092223**	SM 4500-H+B	755727		
50354592002	**GAMW-56-092223**	SM 4500-H+B	755727		
50354592003	**FD-05-092223**	SM 4500-H+B	755727		
50354669001	**GAMW-54-092523**	SM 4500-H+B	755771		
50354669002	**GAMW-54B-092523**	SM 4500-H+B	755771		
50354669003	**FB-05-092523**	SM 4500-H+B	755771		
50354669004	**GAMW-56B-092523**	SM 4500-H+B	755771		
50354669005	**GAMW-52-092523**	SM 4500-H+B	755771		
50354669006	**GAMW-52B-092523**	SM 4500-H+B	755771		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353874

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355025001	**GAMW-53-092823**	SM 4500-H+B	757201		
50355025002	**GAMW-53B-092823**	SM 4500-H+B	757201		
50355129001	**GAMW-55R-092923**	SM 4500-H+B	757547		
50355129002	**GAMW-55B-092923**	SM 4500-H+B	757547		
50355221001	**GAMW-17B-100223**	SM 4500-H+B	757547		
50355221002	**GAMW-68-100223**	SM 4500-H+B	757547		
50355221003	**GAMW-68B-100223**	SM 4500-H+B	757752		
50355221004	**FD-06-100223**	SM 4500-H+B	757752		
50355221005	**FB-06-100224**	SM 4500-H+B	757752		

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Pace Analytical
www.pacelabs.com

WO# : 50353874

50353874

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 Client Information:

Company:	NiSource_WSP
Address:	801 E. 86th Avenue
	Merrillville, IN 46410
Email:	Thomas.Haskins@wsp.com
Phone:	(603)782-2433 Fax
Requested Due Date:	10 day TAT

	Sylvia
Purchase Order #:	
Project Name:	RMSGS Assessment
Project #:	31404789.011

Section C — Invoice Information:

Attention:	Jeff Loewe U126177
Company Name:	NiSource
Address:	
Pace Quote:	
Pace Project Manager:	tina.sayer@pacelabs.com,
Pace Profile #:	9045-1

Regulatory Agency
State / Location
IN

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

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
1	GAMW-01-091323	WT	G			9/13/23	1335		3	2		1						X	X	X	X	
2	GAMW-01B-091323	WT	G			9/13/23	1480		3	2		1						X	X	X	X	
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	FE WSP	9/13/23	1630	FE David Reeves/Pace	9/14/23	0915	1.7	y	Y	Y
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020										
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/13/23

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

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 09/14/23 10:40

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

2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No

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

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

4. **Cooler Temperature(s):** 1.1°/1.1°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 ZPLC

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.** 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:		✓				
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)		N/A	Trip Blank Present?		✓	
			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

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WO# : 50353997

50353997

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 Client Information:

Company:	NiSource_W
Address:	801 E. 86th A
	Merrillville, IN 46410
Email:	Thomas.Haskins@wsp.com
Phone:	(603)782-2433 Fax
Requested Due Date:	10 day TAT

Section B

	Sylvia
Purchase Order #:	PO33924
Project Name:	RMSGS Assessment
Project #:	31404789.011

Section C — Invoice Information:

Attention:	Jeff Loewe U126177
Company Name:	NiSource
Address:	
Pace Quote:	
Pace Project Manager:	tina.sayer@pacelabs.com,
Pace Profile #:	9045-1

Regulatory Agency	
State / Location	IN

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
1	GAMW-14 – 091423	WT	G			9/14/23	1005		3	2		1							X	X	X		
2	GAMW-14B – 091423	WT	G			9/14/23	1105		3	2		1							X	X	X		
3	GAMW-13 – 091423	WT	G			9/14/23	1210		3	2		1							X	X	X		MS-02/MSD-02
4	GAMW-13B – 091423	WT	G			9/14/23	1325		3	2		1							X	X	X		
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
**B,Ca,Li by 6010;	WSP	9/14/23	1600	FedEx		
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	9/15/23	905		9/15/23	905
Hg by 7470						

SAMPLE CONDITIONS			
3.9	4	4	4
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/14/23

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/15/23 1100 TW

1. **Courier:** ☑ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☐ No
   (If yes)Seals Intact: ☑ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H
4. **Cooler Temperature(s):** 3.5/3.4 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Plastic/ZPLC
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.** 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:		/				
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?			/
Containers Intact?:	/		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent /
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	/		Trip Blank Present?		/	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			/

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic
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

WO# : 50354089

50354089

alytical Request Document

MENT. All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Projec			
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-12-091523	WT	G			9/15/23	1015		3	2		1							X	X	X		001
2	GAMW-12B-091523	WT	G			9/15/23	1100		3	2		1							X	X	X		002
3	GAMW-03-091523	WT	G			9/15/23	1210		3	2		1							X	X	X		003
4	GAMW-03B-091523	WT	G			9/15/23	1425		3	2		1							X	X	X		004
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B Ca,Li by 6010	WSP	9/15/23		FedEx						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	9.16.23	0905	Client State) / PACE	9.16.23	0905	0.8	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. Gilles

SIGNATURE of SAMPLER:

DATE Signed: 9/15/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 09.16.2023 1100

1. Courier: [X] FED EX [ ] UPS [ ] CLIENT [ ] PACE [ ] NOW/JETT [ ] OTHER

2. Custody Seal on Cooler/Box Present: [X] Yes [ ] No

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

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

4. Cooler Temperature(s): 0.8/0.8 | | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material: [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other

6. Ice Type: [X] 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
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
Short Hold Time Analysis (48 hours or less)? Analysis:		X
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		X
Custody Signatures Present?	X	
Containers Intact?	X	
Sample Label (IDs/Dates/Times) Match COC? Except TCs, which only require sample ID	X	
Extra labels on Terracore Vials? (soils only)		X

	Yes	No	N/A
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		
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Headspace Wisconsin Sulfide?			X
Headspace in VOA Vials (>6mm): See Containter Count form for details			X
Trip Blank Present?		X	
Trip Blank Custody Seals?			X

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																	1	1	1									WT
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50354175

50354175

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140478 9.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
1	GAMW-51-091823	WT	G			9/18/23	1415		3	2		1							X	X	X	X	
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Seal Cooler (Y/N)	Samples Intact (Y/N)
**B,Ca,Li by 6010;	WSP	9/18/23	1600	Fedex						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Fedex	9/19/23	0905		9/19/23	0905	0.8	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/18/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/19/23 1100 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):** 0.9/0.8 | | | |

(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)		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: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9)** Any non-conformance to pH recommendations will be noted on the container count form LR 9/19			
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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50354261

50354261

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 Client Information:	Required Project Information:	Section C Invoice Information:	
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	Regulatory Agency
Address: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource	
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax:	Project Name: RMSGS Assessment	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-1	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-51B-091923	WT	G			9/19/23	1105		3	2		1						X	X	X	X		001
2	GAMW-08-091923	WT	G			9/19/23	1240		3	2		1						X	X	X	X		002
3	GAMW-08B-091923	WT	G			9/19/23	1355		3	2		1						X	X	X	X		003
4	FD-03-091923	WT	G			9/19/23	1200		3	2		1						X	X	X	X		004
5	FB-01-091923	WT	G			9/19/23	1410		3	2		1						X	X	X	X		005
6	GAMW-60-091923	WT	G			9/19/23	1105		3	2		1						X	X	X	X		006	[illegible]
7	GAMW-60B-091923	WT	G			9/19/23	1220		3	2		1						X	X	X	X		007
8	GAMW-59-091923	WT	G			9/19/23	1320		3	2		1						X	X	X	X		008
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	[signature] / NSP	9/19/23	1630	Fedex						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Fedex	9/20/23	0920	[signature]	9/20/23	0920	[illegible]	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/19/23

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

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/20/23 0950 LR

1. **Courier:** [X] FED EX [ ] UPS [ ] CLIENT [ ] PACE [ ] NOW/JETT [ ] OTHER _____

2. **Custody Seal on Cooler/Box Present:** [X] Yes [ ] No

(If yes)Seals Intact: [X] 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)

1.4/1.3	1.5/1.4		

5. **Packing Material:** [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

6. **Ice Type:** [X] 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
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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

Pace Analytical
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CHAIN-OF-CUSTODY / Analytical Request

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

WO# : 50354383

50354383

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	3140789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-16R-092023	WT	G			9/20/23	1045		3	2		1						X	X	X	X		MS-03/MSD-03 001
2	GAMW-16BR-092023	WT	G			9/20/23	1210		3	2		1						X	X	X	X		002
3	GAMW-59B-092023	WT	G			9/20/23	1145		3	2		1						X	X	X	X		003
4	GAMW-17-092023	WT	G			9/20/23	1310		3	2		1						X	X	X	X		004
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**B,Ca,Li by 6010;	WSP	9/20/23	1600	Fedex			
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Fedex	9/21/23	0920		9/21/23	0920	See Sample Y Y Y
Hg by 7470							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/20/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/21/23 1015 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)

1.0/1.0	6.6/0.6		

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 LR 9/21	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
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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

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CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL

WO# : 50354467

50354467

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page : Of
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:		
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource	
	Merrillville, IN 46410		Sarah Gilles	Address:		Regulatory Agency
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:		
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,	State / Location
Requested Due Date:	10 day TAT	Project #:	314047789.011	Pace Profile #:	9045-1	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-09-092123	WT	G			9/21/23	1055		3	2		1					X	X	X	X		041
2	GAMW-09B-092123	WT	G			9/21/23	1205		3	2		1					X	X	X	X		002
3	GAMW-18-092123	WT	G			9/21/23	1330		3	2		1					X	X	X	X		003
4	FB-03-092123	WT	G			9/21/23	1055		3	2		1					X	X	X	X		004
5	FD-04-092123	WT	G			9/21/23	1200		3	2		1					X	X	X	X		005
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	WSP	9/21/23	1630	FedEx						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	9-22-23	9:25		9-22-23	9:25	0.9	y	y	y
Hg by 7470							0.7	y		

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:	DATE Signed: 9/21/23					

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: RC 9-22-23 11:30

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):** 0.9/0.9 | 0.7/0.7 | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

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

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit	Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black 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	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
DG9S	40mL H2SO4 amber vial	CG3U	250mL Unpres Clear Glass
DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
VG9T	40mL Na Thio. clear vial	AG1T	1L Na Thiosulfate amber glass
VG9U	40mL unpreserved clear vial	AG1U	1liter unpres amber glass
I	40mL w/hexane wipe vial	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
WGFU	4oz clear soil jar	AG2U	500mL unpres amber glass
JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

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CHAIN-OF-CUSTODY / Analytical Request Do

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

WO# : 50354592

50354592

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-1BB-092223	WT	G			9/22/23	1040		3	2		1							X	X	X			001
2	GAMW-5G-092223	WT	G			9/22/23	1200		3	2		1							X	X	X			002
3	FD-05-092223	WT	G			9/22/23	1200		3	2		1							X	X	X			003
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
**B,Ca,Li by 6010;	FE/WSP	9/22/23	1500	FE						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020				David Pearson/Pace	9/23/23	0905	1.1	Y	N	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/22/23

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 09/23/23 11:50

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

2. Custody Seal on Cooler/Box Present: ☐ Yes ☑ No *

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

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

4. Cooler Temperature(s): 1.2°/1.1°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)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			✓

COMMENTS: * The cooler may have originally been rcvd custody sealed, but upon reciept, tape/seal was ripped off from an unknown cooler on the Fedex truck. DMP 9/23/23

COC PAGE 1 **of** 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

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CHAIN-OF-CUSTODY / Analytical Request Doc

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

WO# : 50354669

50354669

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404784.011	Pace Profile #:	9045-1

Regulatory Agency	
State / Location	IN

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

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-54-092523	WT	G			9/25/23	1105		3	2		1							X	X	X	X		001
2	GAMW-54B-092523	WT	G			9/25/23	1245		3	2		1							X	X	X	X		002
3	FB-05-092523	WT	G			9/25/23	1320		3	2		1							X	X	X	X		003
4	GAMW-56B-092523	WT	G			9/25/23	1035		3	2		1							X	X	X	X		004
5	GAMW-52-092523	WT	G			9/25/23	1140		3	2		1							X	X	X	X		005
6	GAMW-52B-092523	WT	G			9/25/23	1305		3	2		1							X	X	X	X		006
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
**B,Ca,Li by 6010;	WSP	9/25/23	1600	FedEx	9.26.23	0915
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEX	9.26.23	0915	Centera Webb	9.26.23	0915
Hg by 7470						

SAMPLE CONDITIONS			
2.5/2.5	Y	Y	Y
TEMP in C	Received on Ice (Y/N)	Custody Seals Present/Intact (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R GILMAN

SIGNATURE of SAMPLER:

DATE Signed: 9/25/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: CTW 9-26-23

1. **Courier:** ☐ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No
   (If yes)Seals Intact: ☐ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H
4. **Cooler Temperature(s):** 2.5/2.5 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☑ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** **Circle:** HNO3 (<2) ~~H2SO4~~ (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form RC 9-26-23	✓		
Short Hold Time Analysis (48 hours or less)? **Analysis:** ~~NO3~~ RC 9-26-23	~~✓~~	✓				
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): RC 9-26-23	~~✓~~	✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide?		✓	I
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		✓	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

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CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50355025

50355025

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-53-092823	WT	G			9/28/23	1115		3	2		1						X	X	X	X		001
2	GAMW-53B-092823	WT	G			9/28/23	1205		3	2		1						X	X	X	X		002
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;	Fedex	9/28/23	1630	Fedex						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020		9/29/23	0925		9/29/23	0925	2.0	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/29/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/29/23 1135 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):** 20/20 | | | |
(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:						
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:

COC PAGE 1 of 1

Sample Container Count

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

| | | |

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CHAIN-OF-CUSTODY / Analytical Reques

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

WO# : 50355129

50355129

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource	
	Merrillville, IN 46410		Sarah Gilles	Address:		Regulatory Agency
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:		
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,	State / Location
Requested Due Date:	10 day TAT	Project #:	31404989.011	Pace Profile #:	9045-1	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
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																								
1	GAMW-55R-092923	WT	G			9/29/23	1120		3	2		1							X	X	X	X		001
2	GAMW-55B-092923	WT	G			9/29/23	1250		3	2		1							X	X	X	X		002
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;	WSP	9/29/23	1500	FE						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FE			Daniel Pearson / Pace	9/30/23	09:15	0.8	Y	N	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 9/29/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 09/30/23 11:10

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°C / 0.8°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)		✓	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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic
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

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WO# : 50355221

50355221

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A — Required Client Information:

Company:	NiSource_WSP
Address:	801 E. 86th Avenue
	Merrillville, IN 46410
Email:	Thomas.Haskins@wsp.com
Phone:	(603)782-2433 Fax:
Requested Due Date:	10 day TAT

Section B

Copy	Sarah Gilles
Purchase Order #:	PO33924
Project Name:	RMSGS Assessment
Project #:	31404789.011

Section C — Invoice Information:

Attention:	Jeff Loewe U126177
Company Name:	NiSource
Address:	
Pace Quote:	
Pace Project Manager:	tina.sayer@pacelabs.com,
Pace Profile #:	9045-1

Regulatory Agency

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
1	GAMW-17B-100223	WT	G			10/2/23	1105		3	2		1							X	X	X	X	
2	GAMW-6B-100223	WT	G			10/2/23	1305		3	2		1							X	X	X	X	
3	GAMW-68B-100223	WT	G			10/2/23	1435		3	2		1							X	X	X	X	
4	FD-06-100223	WT	G			10/2/23	1200		3	2		1							X	X	X	X	
5	FB-06-100223	WT	G			10/2/23	1440		3	2		1							X	X	X	X	
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	WSP	10/2/23	1700	fedex	10/2/23	1700				
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	fedex	10/3/23	0850	CR	10/3/23	0850	1.4	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 10/2/23

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

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/3/23 0923 CME

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) 1.4/1.4 | 0.7/0.7 | | | 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.** 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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 19, 2023

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

RE: Project: RMSGS Assessment
Pace Project No.: 50353853

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between September 14, 2023 and October 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Tina Sayer

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

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: RMSGS Assessment
Pace Project No.: 50353853

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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Indianapolis, IN 46268
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SAMPLE SUMMARY

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50353853001	**GAMW-01-091323**	Water	09/13/23 13:35	09/14/23 09:15
50353853002	**GAMW-01B-091323**	Water	09/13/23 14:30	09/14/23 09:15
50354018001	**GAMW-14-091423**	Water	09/14/23 10:05	09/15/23 09:05
50354018002	**GAMW-14B-091423**	Water	09/14/23 11:05	09/15/23 09:05
50354018003	**GAMW-13-091423**	Water	09/14/23 12:10	09/15/23 09:05
50354018004	**GAMW-13-091423 MS**	Water	09/14/23 12:10	09/15/23 09:05
50354018005	**GAMW-13-091423 MSD**	Water	09/14/23 12:10	09/15/23 09:05
50354018006	**GAMW-13B-091423**	Water	09/14/23 13:25	09/15/23 09:05
50354090001	**GAMW-12-091523**	Water	09/15/23 10:15	09/16/23 09:05
50354090002	**GAMW-12B-091523**	Water	09/15/23 11:00	09/16/23 09:05
50354090003	**GAMW-03-091523**	Water	09/15/23 12:10	09/16/23 09:05
50354090004	**GAMW-03B-091523**	Water	09/15/23 14:25	09/16/23 09:05
50354176001	**GAMW-51-091823**	Water	09/18/23 14:15	09/19/23 09:05
50354275001	**GAMW-51B-091923**	Water	09/19/23 11:05	09/20/23 09:20
50354275002	**GAMW-08-091923**	Water	09/19/23 12:40	09/20/23 09:20
50354275003	**GAMW-08B-091923**	Water	09/19/23 13:55	09/20/23 09:20
50354275004	**FD-03-091923**	Water	09/19/23 12:00	09/20/23 09:20
50354275005	**FB-04-091923**	Water	09/19/23 14:10	09/20/23 09:20
50354275006	**GAMW-60-091923**	Water	09/19/23 11:05	09/20/23 09:20
50354275007	**GAMW-60B-091923**	Water	09/19/23 12:20	09/20/23 09:20
50354275008	**GAMW-59-091923**	Water	09/19/23 13:20	09/20/23 09:20
50354380001	**GAMW-16R-092023**	Water	09/20/23 10:45	09/21/23 09:20
50354380002	**GAMW-16R-092023 MS**	Water	09/20/23 10:45	09/21/23 09:20
50354380003	**GAMW-16R-092023 MSD**	Water	09/20/23 10:45	09/21/23 09:20
50354380004	**GAMW-16BR-092023**	Water	09/20/23 12:10	09/21/23 09:20
50354380005	**GAMW-59B-092023**	Water	09/20/23 11:45	09/21/23 09:20
50354380006	**GAMW-17-092023**	Water	09/20/23 13:10	09/21/23 09:20
50354472001	**GAMW-09-092123**	Water	09/21/23 10:55	09/22/23 09:25
50354472002	**GAMW-09B-092123**	Water	09/21/23 12:05	09/22/23 09:25
50354472003	**GAMW-18-092123**	Water	09/21/23 13:30	09/22/23 09:25
50354472004	**FB-03-092123**	Water	09/21/23 10:55	09/22/23 09:25
50354472005	**FD-04-092123**	Water	09/21/23 12:00	09/22/23 09:25
50354589001	**GAMW-18B-092223**	Water	09/22/23 10:40	09/23/23 09:05
50354589002	**GAMW-56-092223**	Water	09/22/23 12:00	09/23/23 09:05
50354589003	**FD-05-092223**	Water	09/22/23 12:00	09/23/23 09:05
50354670001	**GAMW-54-092523**	Water	09/25/23 11:05	09/26/23 09:15
50354670002	**GAMW-54B-092523**	Water	09/25/23 12:45	09/26/23 09:15

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
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(317)228-3100

SAMPLE SUMMARY

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50354670003	**FB-05-092523**	Water	09/25/23 13:20	09/26/23 09:15
50354670004	**GAMW-56B-092523**	Water	09/25/23 10:35	09/26/23 09:15
50354670005	**GAMW-52-092523**	Water	09/25/23 11:40	09/26/23 09:15
50354670006	**GAMW-52B-092523**	Water	09/25/23 13:05	09/26/23 09:15
50355024001	**GAMW-53-092823**	Water	09/28/23 11:15	09/29/23 09:25
50355024002	**GAMW-53B-092823**	Water	09/28/23 12:05	09/29/23 09:25
50355128001	**GAMW-55R-092923**	Water	09/29/23 11:20	09/30/23 09:15
50355128002	**GAMW-55B-092923**	Water	09/29/23 12:50	09/30/23 09:15
50355216001	**GAMW-17B-100223**	Water	10/02/23 11:05	10/03/23 08:50
50355216002	**GAMW-68-100223**	Water	10/02/23 13:05	10/03/23 08:50
50355216003	**GAMW-68B-100223**	Water	10/02/23 14:35	10/03/23 08:50
50355216004	**FD-06-100223**	Water	10/02/23 12:00	10/03/23 08:50
50355216005	**FB-06-100223**	Water	10/02/23 14:00	10/03/23 08:50

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50353853001	**GAMW-01-091323**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50353853002	**GAMW-01B-091323**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354018001	**GAMW-14-091423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50354018002	**GAMW-14B-091423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50354018003	**GAMW-13-091423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50354018004	**GAMW-13-091423 MS**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50354018005	**GAMW-13-091423 MSD**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50354018006	**GAMW-13B-091423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50354090001	**GAMW-12-091523**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50354090002	**GAMW-12B-091523**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50354090003	**GAMW-03-091523**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50354090004	**GAMW-03B-091523**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
50354176001	**GAMW-51-091823**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50354275001	**GAMW-51B-091923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354275002	**GAMW-08-091923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354275003	**GAMW-08B-091923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354275004	**FD-03-091923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354275005	**FB-04-091923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354275006	**GAMW-60-091923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354275007	**GAMW-60B-091923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354275008	**GAMW-59-091923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354380001	**GAMW-16R-092023**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354380002	**GAMW-16R-092023 MS**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50354380003	**GAMW-16R-092023 MSD**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50354380004	**GAMW-16BR-092023**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354380005	**GAMW-59B-092023**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50354380006	**GAMW-17-092023**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354472001	**GAMW-09-092123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354472002	**GAMW-09B-092123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354472003	**GAMW-18-092123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354472004	**FB-03-092123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354472005	**FD-04-092123**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354589001	**GAMW-18B-092223**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354589002	**GAMW-56-092223**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354589003	**FD-05-092223**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354670001	**GAMW-54-092523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354670002	**GAMW-54B-092523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354670003	**FB-05-092523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354670004	**GAMW-56B-092523**	EPA 903.1	CLM	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354670005	**GAMW-52-092523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50354670006	**GAMW-52B-092523**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355024001	**GAMW-53-092823**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355024002	**GAMW-53B-092823**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355128001	**GAMW-55R-092923**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355128002	**GAMW-55B-092923**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355216001	**GAMW-17B-100223**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355216002	**GAMW-68-100223**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355216003	**GAMW-68B-100223**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355216004	**FD-06-100223**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355216005	**FB-06-100223**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50353853001	**GAMW-01-091323**					
EPA 903.1	Radium-226	0.387 ± 0.539 (0.911) C:NA T:84%	pCi/L		09/28/23 14:33	
EPA 904.0	Radium-228	0.463 ± 0.322 (0.610) C:78% T:83%	pCi/L		09/28/23 15:10	
Total Radium Calculation	Total Radium	0.850 ± 0.861 (1.52)	pCi/L		09/29/23 13:02	
50353853002	**GAMW-01B-091323**					
EPA 903.1	Radium-226	1.37 ± 0.689 (0.750) C:NA T:83%	pCi/L		09/28/23 14:33	
EPA 904.0	Radium-228	1.27 ± 0.435 (0.578) C:81% T:84%	pCi/L		09/28/23 15:10	
Total Radium Calculation	Total Radium	2.64 ± 1.12 (1.33)	pCi/L		09/29/23 13:02	
50354018001	**GAMW-14-091423**					
EPA 903.1	Radium-226	0.414 ± 0.605 (1.03) C:NA T:87%	pCi/L		09/28/23 13:03	
EPA 904.0	Radium-228	0.954 ± 0.415 (0.648) C:82% T:85%	pCi/L		10/03/23 11:38	
Total Radium Calculation	Total Radium	1.37 ± 1.02 (1.68)	pCi/L		10/05/23 16:08	
50354018002	**GAMW-14B-091423**					
EPA 903.1	Radium-226	0.872 ± 0.762 (1.17) C:NA T:83%	pCi/L		09/28/23 13:03	
EPA 904.0	Radium-228	1.55 ± 0.510 (0.655) C:81% T:83%	pCi/L		10/03/23 11:38	
Total Radium Calculation	Total Radium	2.42 ± 1.27 (1.83)	pCi/L		10/05/23 16:08	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354018003	**GAMW-13-091423**					
EPA 903.1	Radium-226	0.0455 ± 0.368 (0.722) C:NA T:89%	pCi/L		09/28/23 13:03	
EPA 904.0	Radium-228	1.50 ± 0.534 (0.765) C:79% T:84%	pCi/L		10/03/23 11:39	
Total Radium Calculation	Total Radium	1.55 ± 0.902 (1.49)	pCi/L		10/05/23 16:08	
50354018004	**GAMW-13-091423 MS**					
EPA 903.1	Radium-226	112.48 %REC ± NA (NA) C:NA T:NA	pCi/L		09/28/23 13:20	
EPA 904.0	Radium-228	84.34 %REC ± NA (NA) C:NA T:NA	pCi/L		10/03/23 11:39	
50354018005	**GAMW-13-091423 MSD**					
EPA 903.1	Radium-226	117.02 %REC 3.95RPD ± NA (NA) C:NA T:NA	pCi/L		09/28/23 13:20	
EPA 904.0	Radium-228	106.16 %REC 22.91RPD ± NA (NA) C:NA T:NA	pCi/L		10/03/23 11:39	
50354018006	**GAMW-13B-091423**					
EPA 903.1	Radium-226	0.815 ± 0.672 (0.971) C:NA T:82%	pCi/L		09/28/23 13:20	
EPA 904.0	Radium-228	2.20 ± 0.669 (0.816) C:80% T:74%	pCi/L		10/03/23 11:39	
Total Radium Calculation	Total Radium	3.02 ± 1.34 (1.79)	pCi/L		10/05/23 16:08	
50354090001	**GAMW-12-091523**					
EPA 903.1	Radium-226	0.494 ± 0.367 (0.459) C:NA T:94%	pCi/L		10/02/23 13:32	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354090001	**GAMW-12-091523**					
EPA 904.0	Radium-228	0.902 ± 0.389 (0.611) C:78% T:86%	pCi/L		10/03/23 12:45	
Total Radium Calculation	Total Radium	1.40 ± 0.756 (1.07)	pCi/L		10/05/23 16:08	
50354090002	**GAMW-12B-091523**					
EPA 903.1	Radium-226	0.507 ± 0.510 (0.804) C:NA T:88%	pCi/L		10/02/23 13:32	
EPA 904.0	Radium-228	0.176 ± 0.289 (0.628) C:81% T:86%	pCi/L		10/03/23 12:45	
Total Radium Calculation	Total Radium	0.683 ± 0.799 (1.43)	pCi/L		10/05/23 16:08	
50354090003	**GAMW-03-091523**					
EPA 903.1	Radium-226	-0.0587 ± 0.474 (0.977) C:NA T:86%	pCi/L		10/02/23 13:52	
EPA 904.0	Radium-228	0.894 ± 0.447 (0.772) C:80% T:79%	pCi/L		10/03/23 12:46	
Total Radium Calculation	Total Radium	0.894 ± 0.921 (1.75)	pCi/L		10/05/23 16:08	
50354090004	**GAMW-03B-091523**					
EPA 903.1	Radium-226	0.584 ± 0.409 (0.493) C:NA T:87%	pCi/L		10/02/23 13:48	
EPA 904.0	Radium-228	0.744 ± 0.490 (0.953) C:76% T:84%	pCi/L		10/03/23 12:46	
Total Radium Calculation	Total Radium	1.33 ± 0.899 (1.45)	pCi/L		10/05/23 16:08	
50354176001	**GAMW-51-091823**					
EPA 903.1	Radium-226	0.523 ± 0.415 (0.540) C:NA T:86%	pCi/L		10/05/23 12:44	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354176001	**GAMW-51-091823**					
EPA 904.0	Radium-228	1.58 ± 0.598 (0.914) C:76% T:73%	pCi/L		10/04/23 12:16	
Total Radium Calculation	Total Radium	2.10 ± 1.01 (1.45)	pCi/L		10/06/23 17:50	
50354275001	**GAMW-51B-091923**					
EPA 903.1	Radium-226	1.91 ± 0.795 (0.709) C:NA T:82%	pCi/L		10/05/23 13:08	
EPA 904.0	Radium-228	2.43 ± 0.765 (1.04) C:73% T:81%	pCi/L		10/04/23 12:15	
Total Radium Calculation	Total Radium	4.34 ± 1.56 (1.75)	pCi/L		10/06/23 17:50	
50354275002	**GAMW-08-091923**					
EPA 903.1	Radium-226	0.523 ± 0.366 (0.442) C:NA T:95%	pCi/L		10/05/23 13:08	
EPA 904.0	Radium-228	1.17 ± 0.598 (1.07) C:73% T:76%	pCi/L		10/04/23 15:40	
Total Radium Calculation	Total Radium	1.69 ± 0.964 (1.51)	pCi/L		10/06/23 17:50	
50354275003	**GAMW-08B-091923**					
EPA 903.1	Radium-226	0.970 ± 0.593 (0.728) C:NA T:83%	pCi/L		10/05/23 13:08	
EPA 904.0	Radium-228	0.994 ± 0.564 (1.05) C:75% T:82%	pCi/L		10/04/23 15:40	
Total Radium Calculation	Total Radium	1.96 ± 1.16 (1.78)	pCi/L		10/06/23 17:50	
50354275004	**FD-03-091923**					
EPA 903.1	Radium-226	1.63 ± 0.726 (0.726) C:NA T:87%	pCi/L		10/05/23 13:20	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354275004	**FD-03-091923**					
EPA 904.0	Radium-228	2.07 ± 0.667 (0.893) C:78% T:78%	pCi/L		10/04/23 15:40	
Total Radium Calculation	Total Radium	3.70 ± 1.39 (1.62)	pCi/L		10/06/23 17:50	
50354275005	**FB-04-091923**					
EPA 903.1	Radium-226	0.175 ± 0.413 (0.765) C:NA T:90%	pCi/L		10/05/23 13:20	
EPA 904.0	Radium-228	0.359 ± 0.537 (1.16) C:78% T:71%	pCi/L		10/04/23 15:40	
Total Radium Calculation	Total Radium	0.534 ± 0.950 (1.93)	pCi/L		10/06/23 17:50	
50354275006	**GAMW-60-091923**					
EPA 903.1	Radium-226	0.374 ± 0.459 (0.748) C:NA T:81%	pCi/L		10/05/23 13:20	
EPA 904.0	Radium-228	0.674 ± 0.521 (1.04) C:78% T:72%	pCi/L		10/04/23 15:40	
Total Radium Calculation	Total Radium	1.05 ± 0.980 (1.79)	pCi/L		10/06/23 17:50	
50354275007	**GAMW-60B-091923**					
EPA 903.1	Radium-226	2.23 ± 0.895 (0.774) C:NA T:76%	pCi/L		10/05/23 13:20	
EPA 904.0	Radium-228	2.24 ± 0.697 (0.925) C:77% T:84%	pCi/L		10/04/23 15:41	
Total Radium Calculation	Total Radium	4.47 ± 1.59 (1.70)	pCi/L		10/06/23 17:50	
50354275008	**GAMW-59-091923**					
EPA 903.1	Radium-226	0.791 ± 0.593 (0.848) C:NA T:89%	pCi/L		10/05/23 13:20	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354275008	**GAMW-59-091923**					
EPA 904.0	Radium-228	0.636 ± 0.513 (1.03) C:79% T:82%	pCi/L		10/04/23 15:41	
Total Radium Calculation	Total Radium	1.43 ± 1.11 (1.88)	pCi/L		10/06/23 17:50	
50354380001	**GAMW-16R-092023**					
EPA 903.1	Radium-226	0.197 ± 0.274 (0.458) C:NA T:92%	pCi/L		10/04/23 12:58	
EPA 904.0	Radium-228	0.594 ± 0.379 (0.707) C:84% T:78%	pCi/L		10/03/23 11:42	
Total Radium Calculation	Total Radium	0.791 ± 0.653 (1.17)	pCi/L		10/09/23 12:08	
50354380002	**GAMW-16R-092023 MS**					
EPA 903.1	Radium-226	103.18 %REC ± NA (NA) C:NA T:NA	pCi/L		10/04/23 12:58	
EPA 904.0	Radium-228	79.18 %REC ± NA (NA) C:NA T:NA	pCi/L		10/03/23 11:42	
50354380003	**GAMW-16R-092023 MSD**					
EPA 903.1	Radium-226	93.26 %REC 10.10RPD ± NA (NA) C:NA T:NA	pCi/L		10/04/23 12:58	
EPA 904.0	Radium-228	89.63 %REC 12.38RPD ± NA (NA) C:NA T:NA	pCi/L		10/03/23 11:43	
50354380004	**GAMW-16BR-092023**					
EPA 903.1	Radium-226	0.242 ± 0.503 (0.907) C:NA T:94%	pCi/L		10/04/23 12:58	
EPA 904.0	Radium-228	1.17 ± 0.548 (0.949) C:77% T:80%	pCi/L		10/03/23 11:43	
Total Radium Calculation	Total Radium	1.41 ± 1.05 (1.86)	pCi/L		10/09/23 12:08	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354380005	**GAMW-59B-092023**					
EPA 903.1	Radium-226	0.667 ± 0.524 (0.728) C:NA T:86%	pCi/L		10/04/23 12:58	
EPA 904.0	Radium-228	1.65 ± 0.621 (0.961) C:77% T:82%	pCi/L		10/03/23 15:02	
Total Radium Calculation	Total Radium	2.32 ± 1.15 (1.69)	pCi/L		10/09/23 12:08	
50354380006	**GAMW-17-092023**					
EPA 903.1	Radium-226	0.552 ± 0.637 (1.04) C:NA T:86%	pCi/L		10/04/23 12:58	
EPA 904.0	Radium-228	0.375 ± 0.368 (0.751) C:73% T:84%	pCi/L		10/03/23 15:02	
Total Radium Calculation	Total Radium	0.927 ± 1.01 (1.79)	pCi/L		10/09/23 12:08	
50354472001	**GAMW-09-092123**					
EPA 903.1	Radium-226	0.432 ± 0.633 (1.08) C:NA T:86%	pCi/L		10/06/23 13:42	
EPA 904.0	Radium-228	0.543 ± 0.343 (0.631) C:81% T:85%	pCi/L		10/05/23 15:53	
Total Radium Calculation	Total Radium	0.975 ± 0.976 (1.71)	pCi/L		10/10/23 15:15	
50354472002	**GAMW-09B-092123**					
EPA 903.1	Radium-226	0.304 ± 0.492 (0.856) C:NA T:86%	pCi/L		10/06/23 13:42	
EPA 904.0	Radium-228	1.12 ± 0.431 (0.627) C:83% T:84%	pCi/L		10/05/23 15:50	
Total Radium Calculation	Total Radium	1.42 ± 0.923 (1.48)	pCi/L		10/10/23 15:15	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354472003	**GAMW-18-092123**					
EPA 903.1	Radium-226	0.181 ± 0.428 (0.792) C:NA T:92%	pCi/L		10/06/23 13:55	
EPA 904.0	Radium-228	0.816 ± 0.545 (1.06) C:77% T:78%	pCi/L		10/05/23 15:50	
Total Radium Calculation	Total Radium	0.997 ± 0.973 (1.85)	pCi/L		10/10/23 15:15	
50354472004	**FB-03-092123**					
EPA 903.1	Radium-226	0.0558 ± 0.255 (0.518) C:NA T:92%	pCi/L		10/06/23 13:55	
EPA 904.0	Radium-228	0.558 ± 0.452 (0.903) C:75% T:87%	pCi/L		10/05/23 15:50	
Total Radium Calculation	Total Radium	0.614 ± 0.707 (1.42)	pCi/L		10/10/23 15:15	
50354472005	**FD-04-092123**					
EPA 903.1	Radium-226	0.693 ± 0.550 (0.746) C:NA T:88%	pCi/L		10/06/23 13:55	
EPA 904.0	Radium-228	1.11 ± 0.507 (0.866) C:78% T:88%	pCi/L		10/05/23 15:50	
Total Radium Calculation	Total Radium	1.80 ± 1.06 (1.61)	pCi/L		10/10/23 15:15	
50354589001	**GAMW-18B-092223**					
EPA 903.1	Radium-226	1.15 ± 0.695 (0.910) C:NA T:85%	pCi/L		10/09/23 12:12	
EPA 904.0	Radium-228	0.936 ± 0.435 (0.710) C:76% T:87%	pCi/L		10/06/23 14:57	
Total Radium Calculation	Total Radium	2.09 ± 1.13 (1.62)	pCi/L		10/09/23 16:03	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354589002	**GAMW-56-092223**					
EPA 903.1	Radium-226	0.000 ± 0.271 (0.551) C:NA T:90%	pCi/L		10/09/23 12:28	
EPA 904.0	Radium-228	0.539 ± 0.401 (0.763) C:75% T:87%	pCi/L		10/06/23 14:57	
Total Radium Calculation	Total Radium	0.539 ± 0.672 (1.31)	pCi/L		10/09/23 16:03	
50354589003	**FD-05-092223**					
EPA 903.1	Radium-226	0.406 ± 0.380 (0.538) C:NA T:97%	pCi/L		10/09/23 12:28	
EPA 904.0	Radium-228	0.783 ± 0.461 (0.837) C:76% T:82%	pCi/L		10/06/23 14:58	
Total Radium Calculation	Total Radium	1.19 ± 0.841 (1.38)	pCi/L		10/09/23 16:03	
50354670001	**GAMW-54-092523**					
EPA 903.1	Radium-226	0.0615 ± 0.497 (0.976) C:NA T:93%	pCi/L		10/10/23 14:30	
EPA 904.0	Radium-228	-0.0597 ± 0.444 (1.05) C:71% T:77%	pCi/L		10/11/23 14:25	
Total Radium Calculation	Total Radium	0.0615 ± 0.941 (2.03)	pCi/L		10/18/23 12:12	
50354670002	**GAMW-54B-092523**					
EPA 903.1	Radium-226	0.951 ± 0.634 (0.787) C:NA T:82%	pCi/L		10/10/23 14:30	
EPA 904.0	Radium-228	1.64 ± 0.618 (0.901) C:72% T:70%	pCi/L		10/16/23 12:11	
Total Radium Calculation	Total Radium	2.59 ± 1.25 (1.69)	pCi/L		10/18/23 12:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50354670003	**FB-05-092523**					
EPA 903.1	Radium-226	0.169 ± 0.332 (0.606) C:NA T:91%	pCi/L		10/10/23 14:30	
EPA 904.0	Radium-228	0.218 ± 0.433 (0.953) C:76% T:84%	pCi/L		10/11/23 14:26	
Total Radium Calculation	Total Radium	0.387 ± 0.765 (1.56)	pCi/L		10/18/23 12:12	
50354670004	**GAMW-56B-092523**					
EPA 903.1	Radium-226	1.36 ± 0.682 (0.743) C:NA T:83%	pCi/L		10/10/23 14:30	
EPA 904.0	Radium-228	1.07 ± 0.478 (0.778) C:82% T:73%	pCi/L		10/11/23 14:26	
Total Radium Calculation	Total Radium	2.43 ± 1.16 (1.52)	pCi/L		10/18/23 12:12	
50354670005	**GAMW-52-092523**					
EPA 903.1	Radium-226	0.636 ± 0.635 (1.01) C:NA T:92%	pCi/L		10/10/23 14:30	
EPA 904.0	Radium-228	0.454 ± 0.403 (0.816) C:79% T:82%	pCi/L		10/11/23 14:26	
Total Radium Calculation	Total Radium	1.09 ± 1.04 (1.83)	pCi/L		10/18/23 12:12	
50354670006	**GAMW-52B-092523**					
EPA 903.1	Radium-226	0.266 ± 0.611 (1.11) C:NA T:85%	pCi/L		10/10/23 14:43	
EPA 904.0	Radium-228	0.770 ± 0.420 (0.743) C:81% T:78%	pCi/L		10/11/23 14:27	
Total Radium Calculation	Total Radium	1.04 ± 1.03 (1.85)	pCi/L		10/18/23 12:12	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355024001	**GAMW-53-092823**					
EPA 903.1	Radium-226	0.0550 ± 0.358 (0.721) C:NA T:98%	pCi/L		10/12/23 13:22	
EPA 904.0	Radium-228	0.0292 ± 0.344 (0.797) C:79% T:82%	pCi/L		10/12/23 14:32	
Total Radium Calculation	Total Radium	0.0842 ± 0.702 (1.52)	pCi/L		10/17/23 08:15	
50355024002	**GAMW-53B-092823**					
EPA 903.1	Radium-226	0.724 ± 0.632 (0.957) C:NA T:88%	pCi/L		10/12/23 13:22	
EPA 904.0	Radium-228	0.725 ± 0.445 (0.824) C:78% T:78%	pCi/L		10/12/23 14:32	
Total Radium Calculation	Total Radium	1.45 ± 1.08 (1.78)	pCi/L		10/17/23 08:15	
50355128001	**GAMW-55R-092923**					
EPA 903.1	Radium-226	-0.147 ± 0.538 (1.16) C:NA T:72%	pCi/L		10/16/23 13:03	
EPA 904.0	Radium-228	0.641 ± 0.523 (1.03) C:70% T:65%	pCi/L		10/16/23 15:28	
Total Radium Calculation	Total Radium	0.641 ± 1.06 (2.19)	pCi/L		10/18/23 11:58	
50355128002	**GAMW-55B-092923**					
EPA 903.1	Radium-226	0.311 ± 0.484 (0.837) C:NA T:67%	pCi/L		10/16/23 13:03	
EPA 904.0	Radium-228	1.12 ± 0.563 (0.967) C:78% T:65%	pCi/L		10/16/23 15:28	
Total Radium Calculation	Total Radium	1.43 ± 1.05 (1.80)	pCi/L		10/18/23 11:58	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355216001	**GAMW-17B-100223**					
EPA 903.1	Radium-226	0.852 ± 0.624 (0.859) C:NA T:84%	pCi/L		10/16/23 12:14	
EPA 904.0	Radium-228	0.850 ± 0.449 (0.787) C:79% T:75%	pCi/L		10/16/23 15:27	
Total Radium Calculation	Total Radium	1.70 ± 1.07 (1.65)	pCi/L		10/18/23 16:39	
50355216002	**GAMW-68-100223**					
EPA 903.1	Radium-226	0.720 ± 0.527 (0.726) C:NA T:91%	pCi/L		10/16/23 12:14	
EPA 904.0	Radium-228	0.0892 ± 0.356 (0.807) C:84% T:77%	pCi/L		10/16/23 15:27	
Total Radium Calculation	Total Radium	0.809 ± 0.883 (1.53)	pCi/L		10/18/23 16:39	
50355216003	**GAMW-68B-100223**					
EPA 903.1	Radium-226	1.03 ± 0.711 (1.01) C:NA T:86%	pCi/L		10/16/23 12:14	
EPA 904.0	Radium-228	0.876 ± 0.450 (0.781) C:80% T:80%	pCi/L		10/16/23 15:27	
Total Radium Calculation	Total Radium	1.91 ± 1.16 (1.79)	pCi/L		10/18/23 16:39	
50355216004	**FD-06-100223**					
EPA 903.1	Radium-226	0.790 ± 0.638 (0.928) C:NA T:85%	pCi/L		10/16/23 12:28	
EPA 904.0	Radium-228	0.183 ± 0.345 (0.758) C:79% T:81%	pCi/L		10/16/23 15:27	
Total Radium Calculation	Total Radium	0.973 ± 0.983 (1.69)	pCi/L		10/18/23 16:39	

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SUMMARY OF DETECTION

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355216005	**FB-06-100223**					
EPA 903.1	Radium-226	0.0657 ± 0.561 (1.09) C:NA T:85%	pCi/L		10/16/23 12:28	
EPA 904.0	Radium-228	0.0828 ± 0.326 (0.743) C:83% T:76%	pCi/L		10/16/23 15:28	
Total Radium Calculation	Total Radium	0.149 ± 0.887 (1.83)	pCi/L		10/18/23 16:39	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353853

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: NiSource_WSP Golder
Date: October 19, 2023

General Information:
50 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:

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353853

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: NiSource_WSP Golder
Date: October 19, 2023

General Information:
50 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:

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PROJECT NARRATIVE

Project: RMSGS Assessment
Pace Project No.: 50353853

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: NiSource_WSP Golder
Date: October 19, 2023

General Information:
46 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: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-01-091323 **Lab ID: 50353853001** Collected: 09/13/23 13:35 Received: 09/14/23 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	**0.387 ± 0.539 (0.911) C:NA T:84%**	pCi/L	09/28/23 14:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.463 ± 0.322 (0.610) C:78% T:83%**	pCi/L	09/28/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.850 ± 0.861 (1.52)**	pCi/L	09/29/23 13:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-01B-091323 **Lab ID: 50353853002** Collected: 09/13/23 14:30 Received: 09/14/23 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	**1.37 ± 0.689 (0.750) C:NA T:83%**	pCi/L	09/28/23 14:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.27 ± 0.435 (0.578) C:81% T:84%**	pCi/L	09/28/23 15:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.64 ± 1.12 (1.33)**	pCi/L	09/29/23 13:02	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-14-091423 **Lab ID: 50354018001** Collected: 09/14/23 10:05 Received: 09/15/23 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	**0.414 ± 0.605 (1.03) C:NA T:87%**	pCi/L	09/28/23 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.954 ± 0.415 (0.648) C:82% T:85%**	pCi/L	10/03/23 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.37 ± 1.02 (1.68)**	pCi/L	10/05/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-14B-091423 **Lab ID: 50354018002** Collected: 09/14/23 11:05 Received: 09/15/23 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	**0.872 ± 0.762 (1.17) C:NA T:83%**	pCi/L	09/28/23 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.55 ± 0.510 (0.655) C:81% T:83%**	pCi/L	10/03/23 11:38	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.42 ± 1.27 (1.83)**	pCi/L	10/05/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-13-091423 **Lab ID: 50354018003** Collected: 09/14/23 12:10 Received: 09/15/23 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	**0.0455 ± 0.368 (0.722) C:NA T:89%**	pCi/L	09/28/23 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.50 ± 0.534 (0.765) C:79% T:84%**	pCi/L	10/03/23 11:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.55 ± 0.902 (1.49)**	pCi/L	10/05/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-13-091423 MS **Lab ID: 50354018004** Collected: 09/14/23 12:10 Received: 09/15/23 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	**112.48 %REC ± NA (NA) C:NA T:NA**	pCi/L	09/28/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**84.34 %REC ± NA (NA) C:NA T:NA**	pCi/L	10/03/23 11:39	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-13-091423 MSD **Lab ID: 50354018005** Collected: 09/14/23 12:10 Received: 09/15/23 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	**117.02 %REC 3.95RPD ± NA (NA) C:NA T:NA**	pCi/L	09/28/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**106.16 %REC 22.91RPD ± NA (NA) C:NA T:NA**	pCi/L	10/03/23 11:39	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-13B-091423 **Lab ID: 50354018006** Collected: 09/14/23 13:25 Received: 09/15/23 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	**0.815 ± 0.672 (0.971) C:NA T:82%**	pCi/L	09/28/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.20 ± 0.669 (0.816) C:80% T:74%**	pCi/L	10/03/23 11:39	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.02 ± 1.34 (1.79)**	pCi/L	10/05/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-12-091523 **Lab ID: 50354090001** Collected: 09/15/23 10:15 Received: 09/16/23 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	**0.494 ± 0.367 (0.459) C:NA T:94%**	pCi/L	10/02/23 13:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.902 ± 0.389 (0.611) C:78% T:86%**	pCi/L	10/03/23 12:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.40 ± 0.756 (1.07)**	pCi/L	10/05/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-12B-091523 **Lab ID: 50354090002** Collected: 09/15/23 11:00 Received: 09/16/23 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	**0.507 ± 0.510 (0.804) C:NA T:88%**	pCi/L	10/02/23 13:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.176 ± 0.289 (0.628) C:81% T:86%**	pCi/L	10/03/23 12:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.683 ± 0.799 (1.43)**	pCi/L	10/05/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-03-091523 **Lab ID: 50354090003** Collected: 09/15/23 12:10 Received: 09/16/23 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	**-0.0587 ± 0.474 (0.977) C:NA T:86%**	pCi/L	10/02/23 13:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.894 ± 0.447 (0.772) C:80% T:79%**	pCi/L	10/03/23 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.894 ± 0.921 (1.75)**	pCi/L	10/05/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-03B-091523 **Lab ID: 50354090004** Collected: 09/15/23 14:25 Received: 09/16/23 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	**0.584 ± 0.409 (0.493) C:NA T:87%**	pCi/L	10/02/23 13:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.744 ± 0.490 (0.953) C:76% T:84%**	pCi/L	10/03/23 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.33 ± 0.899 (1.45)**	pCi/L	10/05/23 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-51-091823 **Lab ID: 50354176001** Collected: 09/18/23 14:15 Received: 09/19/23 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	**0.523 ± 0.415 (0.540) C:NA T:86%**	pCi/L	10/05/23 12:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.58 ± 0.598 (0.914) C:76% T:73%**	pCi/L	10/04/23 12:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.10 ± 1.01 (1.45)**	pCi/L	10/06/23 17:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-51B-091923 **Lab ID: 50354275001** Collected: 09/19/23 11:05 Received: 09/20/23 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	**1.91 ± 0.795 (0.709) C:NA T:82%**	pCi/L	10/05/23 13:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.43 ± 0.765 (1.04) C:73% T:81%**	pCi/L	10/04/23 12:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.34 ± 1.56 (1.75)**	pCi/L	10/06/23 17:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-08-091923 **Lab ID: 50354275002** Collected: 09/19/23 12:40 Received: 09/20/23 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	**0.523 ± 0.366 (0.442) C:NA T:95%**	pCi/L	10/05/23 13:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.17 ± 0.598 (1.07) C:73% T:76%**	pCi/L	10/04/23 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.69 ± 0.964 (1.51)**	pCi/L	10/06/23 17:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-08B-091923 **Lab ID: 50354275003** Collected: 09/19/23 13:55 Received: 09/20/23 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	**0.970 ± 0.593 (0.728) C:NA T:83%**	pCi/L	10/05/23 13:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.994 ± 0.564 (1.05) C:75% T:82%**	pCi/L	10/04/23 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.96 ± 1.16 (1.78)**	pCi/L	10/06/23 17:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: FD-03-091923 **Lab ID: 50354275004** Collected: 09/19/23 12:00 Received: 09/20/23 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	**1.63 ± 0.726 (0.726) C:NA T:87%**	pCi/L	10/05/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.07 ± 0.667 (0.893) C:78% T:78%**	pCi/L	10/04/23 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.70 ± 1.39 (1.62)**	pCi/L	10/06/23 17:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: FB-04-091923 **Lab ID: 50354275005** Collected: 09/19/23 14:10 Received: 09/20/23 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	**0.175 ± 0.413 (0.765) C:NA T:90%**	pCi/L	10/05/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.359 ± 0.537 (1.16) C:78% T:71%**	pCi/L	10/04/23 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.534 ± 0.950 (1.93)**	pCi/L	10/06/23 17:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-60-091923 **Lab ID: 50354275006** Collected: 09/19/23 11:05 Received: 09/20/23 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	**0.374 ± 0.459 (0.748) C:NA T:81%**	pCi/L	10/05/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.674 ± 0.521 (1.04) C:78% T:72%**	pCi/L	10/04/23 15:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.05 ± 0.980 (1.79)**	pCi/L	10/06/23 17:50	7440-14-4	

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Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-60B-091923 **Lab ID: 50354275007** Collected: 09/19/23 12:20 Received: 09/20/23 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	**2.23 ± 0.895 (0.774) C:NA T:76%**	pCi/L	10/05/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**2.24 ± 0.697 (0.925) C:77% T:84%**	pCi/L	10/04/23 15:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.47 ± 1.59 (1.70)**	pCi/L	10/06/23 17:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-59-091923 **Lab ID: 50354275008** Collected: 09/19/23 13:20 Received: 09/20/23 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	**0.791 ± 0.593 (0.848) C:NA T:89%**	pCi/L	10/05/23 13:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.636 ± 0.513 (1.03) C:79% T:82%**	pCi/L	10/04/23 15:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.43 ± 1.11 (1.88)**	pCi/L	10/06/23 17:50	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-16R-092023 **Lab ID: 50354380001** Collected: 09/20/23 10:45 Received: 09/21/23 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	**0.197 ± 0.274 (0.458) C:NA T:92%**	pCi/L	10/04/23 12:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.594 ± 0.379 (0.707) C:84% T:78%**	pCi/L	10/03/23 11:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.791 ± 0.653 (1.17)**	pCi/L	10/09/23 12:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-16R-092023 MS **Lab ID: 50354380002** Collected: 09/20/23 10:45 Received: 09/21/23 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	**103.18 %REC ± NA (NA) C:NA T:NA**	pCi/L	10/04/23 12:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**79.18 %REC ± NA (NA) C:NA T:NA**	pCi/L	10/03/23 11:42	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-16R-092023 MSD **Lab ID: 50354380003** Collected: 09/20/23 10:45 Received: 09/21/23 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	**93.26 %REC 10.10RPD ± NA (NA) C:NA T:NA**	pCi/L	10/04/23 12:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**89.63 %REC 12.38RPD ± NA (NA) C:NA T:NA**	pCi/L	10/03/23 11:43	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-16BR-092023 **Lab ID: 50354380004** Collected: 09/20/23 12:10 Received: 09/21/23 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	**0.242 ± 0.503 (0.907) C:NA T:94%**	pCi/L	10/04/23 12:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.17 ± 0.548 (0.949) C:77% T:80%**	pCi/L	10/03/23 11:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 1.05 (1.86)**	pCi/L	10/09/23 12:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-59B-092023 **Lab ID: 50354380005** Collected: 09/20/23 11:45 Received: 09/21/23 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	**0.667 ± 0.524 (0.728) C:NA T:86%**	pCi/L	10/04/23 12:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.65 ± 0.621 (0.961) C:77% T:82%**	pCi/L	10/03/23 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.32 ± 1.15 (1.69)**	pCi/L	10/09/23 12:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-17-092023 **Lab ID: 50354380006** Collected: 09/20/23 13:10 Received: 09/21/23 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	**0.552 ± 0.637 (1.04) C:NA T:86%**	pCi/L	10/04/23 12:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.375 ± 0.368 (0.751) C:73% T:84%**	pCi/L	10/03/23 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.927 ± 1.01 (1.79)**	pCi/L	10/09/23 12:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-09-092123 **Lab ID: 50354472001** Collected: 09/21/23 10:55 Received: 09/22/23 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	**0.432 ± 0.633 (1.08) C:NA T:86%**	pCi/L	10/06/23 13:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.543 ± 0.343 (0.631) C:81% T:85%**	pCi/L	10/05/23 15:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.975 ± 0.976 (1.71)**	pCi/L	10/10/23 15:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-09B-092123 **Lab ID: 50354472002** Collected: 09/21/23 12:05 Received: 09/22/23 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	**0.304 ± 0.492 (0.856) C:NA T:86%**	pCi/L	10/06/23 13:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.12 ± 0.431 (0.627) C:83% T:84%**	pCi/L	10/05/23 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.42 ± 0.923 (1.48)**	pCi/L	10/10/23 15:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-18-092123 **Lab ID: 50354472003** Collected: 09/21/23 13:30 Received: 09/22/23 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	**0.181 ± 0.428 (0.792) C:NA T:92%**	pCi/L	10/06/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.816 ± 0.545 (1.06) C:77% T:78%**	pCi/L	10/05/23 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.997 ± 0.973 (1.85)**	pCi/L	10/10/23 15:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: FB-03-092123 **Lab ID: 50354472004** Collected: 09/21/23 10:55 Received: 09/22/23 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	**0.0558 ± 0.255 (0.518) C:NA T:92%**	pCi/L	10/06/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.558 ± 0.452 (0.903) C:75% T:87%**	pCi/L	10/05/23 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.614 ± 0.707 (1.42)**	pCi/L	10/10/23 15:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: FD-04-092123 **Lab ID: 50354472005** Collected: 09/21/23 12:00 Received: 09/22/23 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	**0.693 ± 0.550 (0.746) C:NA T:88%**	pCi/L	10/06/23 13:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.11 ± 0.507 (0.866) C:78% T:88%**	pCi/L	10/05/23 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.80 ± 1.06 (1.61)**	pCi/L	10/10/23 15:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-18B-092223 **Lab ID: 50354589001** Collected: 09/22/23 10:40 Received: 09/23/23 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	**1.15 ± 0.695 (0.910) C:NA T:85%**	pCi/L	10/09/23 12:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.936 ± 0.435 (0.710) C:76% T:87%**	pCi/L	10/06/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.09 ± 1.13 (1.62)**	pCi/L	10/09/23 16:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-56-092223 **Lab ID: 50354589002** Collected: 09/22/23 12:00 Received: 09/23/23 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 ± 0.271 (0.551) C:NA T:90%**	pCi/L	10/09/23 12:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.539 ± 0.401 (0.763) C:75% T:87%**	pCi/L	10/06/23 14:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.539 ± 0.672 (1.31)**	pCi/L	10/09/23 16:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: FD-05-092223 **Lab ID: 50354589003** Collected: 09/22/23 12:00 Received: 09/23/23 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	**0.406 ± 0.380 (0.538) C:NA T:97%**	pCi/L	10/09/23 12:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.783 ± 0.461 (0.837) C:76% T:82%**	pCi/L	10/06/23 14:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.841 (1.38)**	pCi/L	10/09/23 16:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-54-092523 **Lab ID: 50354670001** Collected: 09/25/23 11:05 Received: 09/26/23 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	**0.0615 ± 0.497 (0.976) C:NA T:93%**	pCi/L	10/10/23 14:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.0597 ± 0.444 (1.05) C:71% T:77%**	pCi/L	10/11/23 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0615 ± 0.941 (2.03)**	pCi/L	10/18/23 12:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-54B-092523 **Lab ID: 50354670002** Collected: 09/25/23 12:45 Received: 09/26/23 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	**0.951 ± 0.634 (0.787) C:NA T:82%**	pCi/L	10/10/23 14:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.64 ± 0.618 (0.901) C:72% T:70%**	pCi/L	10/16/23 12:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.59 ± 1.25 (1.69)**	pCi/L	10/18/23 12:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: FB-05-092523 **Lab ID: 50354670003** Collected: 09/25/23 13:20 Received: 09/26/23 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	**0.169 ± 0.332 (0.606) C:NA T:91%**	pCi/L	10/10/23 14:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.218 ± 0.433 (0.953) C:76% T:84%**	pCi/L	10/11/23 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.387 ± 0.765 (1.56)**	pCi/L	10/18/23 12:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-56B-092523 **Lab ID: 50354670004** Collected: 09/25/23 10:35 Received: 09/26/23 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	**1.36 ± 0.682 (0.743) C:NA T:83%**	pCi/L	10/10/23 14:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.07 ± 0.478 (0.778) C:82% T:73%**	pCi/L	10/11/23 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.43 ± 1.16 (1.52)**	pCi/L	10/18/23 12:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-52-092523 **Lab ID: 50354670005** Collected: 09/25/23 11:40 Received: 09/26/23 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	**0.636 ± 0.635 (1.01) C:NA T:92%**	pCi/L	10/10/23 14:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.454 ± 0.403 (0.816) C:79% T:82%**	pCi/L	10/11/23 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09 ± 1.04 (1.83)**	pCi/L	10/18/23 12:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-52B-092523 **Lab ID: 50354670006** Collected: 09/25/23 13:05 Received: 09/26/23 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	**0.266 ± 0.611 (1.11) C:NA T:85%**	pCi/L	10/10/23 14:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.770 ± 0.420 (0.743) C:81% T:78%**	pCi/L	10/11/23 14:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.04 ± 1.03 (1.85)**	pCi/L	10/18/23 12:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-53-092823 **Lab ID: 50355024001** Collected: 09/28/23 11:15 Received: 09/29/23 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	**0.0550 ± 0.358 (0.721) C:NA T:98%**	pCi/L	10/12/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0292 ± 0.344 (0.797) C:79% T:82%**	pCi/L	10/12/23 14:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0842 ± 0.702 (1.52)**	pCi/L	10/17/23 08:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-53B-092823 **Lab ID: 50355024002** Collected: 09/28/23 12:05 Received: 09/29/23 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	**0.724 ± 0.632 (0.957) C:NA T:88%**	pCi/L	10/12/23 13:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.725 ± 0.445 (0.824) C:78% T:78%**	pCi/L	10/12/23 14:32	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.45 ± 1.08 (1.78)**	pCi/L	10/17/23 08:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-55R-092923 **Lab ID: 50355128001** Collected: 09/29/23 11:20 Received: 09/30/23 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	**-0.147 ± 0.538 (1.16) C:NA T:72%**	pCi/L	10/16/23 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.641 ± 0.523 (1.03) C:70% T:65%**	pCi/L	10/16/23 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.641 ± 1.06 (2.19)**	pCi/L	10/18/23 11:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-55B-092923 **Lab ID: 50355128002** Collected: 09/29/23 12:50 Received: 09/30/23 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	**0.311 ± 0.484 (0.837) C:NA T:67%**	pCi/L	10/16/23 13:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.12 ± 0.563 (0.967) C:78% T:65%**	pCi/L	10/16/23 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.43 ± 1.05 (1.80)**	pCi/L	10/18/23 11:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-17B-100223 **Lab ID: 50355216001** Collected: 10/02/23 11:05 Received: 10/03/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.852 ± 0.624 (0.859) C:NA T:84%**	pCi/L	10/16/23 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.850 ± 0.449 (0.787) C:79% T:75%**	pCi/L	10/16/23 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.70 ± 1.07 (1.65)**	pCi/L	10/18/23 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-68-100223 **Lab ID: 50355216002** Collected: 10/02/23 13:05 Received: 10/03/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.720 ± 0.527 (0.726) C:NA T:91%**	pCi/L	10/16/23 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0892 ± 0.356 (0.807) C:84% T:77%**	pCi/L	10/16/23 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.809 ± 0.883 (1.53)**	pCi/L	10/18/23 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: GAMW-68B-100223 **Lab ID: 50355216003** Collected: 10/02/23 14:35 Received: 10/03/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**1.03 ± 0.711 (1.01) C:NA T:86%**	pCi/L	10/16/23 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.876 ± 0.450 (0.781) C:80% T:80%**	pCi/L	10/16/23 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.91 ± 1.16 (1.79)**	pCi/L	10/18/23 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: FD-06-100223 **Lab ID: 50355216004** Collected: 10/02/23 12:00 Received: 10/03/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.790 ± 0.638 (0.928) C:NA T:85%**	pCi/L	10/16/23 12:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.183 ± 0.345 (0.758) C:79% T:81%**	pCi/L	10/16/23 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.973 ± 0.983 (1.69)**	pCi/L	10/18/23 16:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

Sample: FB-06-100223 **Lab ID: 50355216005** Collected: 10/02/23 14:00 Received: 10/03/23 08:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0657 ± 0.561 (1.09) C:NA T:85%**	pCi/L	10/16/23 12:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0828 ± 0.326 (0.743) C:83% T:76%**	pCi/L	10/16/23 15:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.149 ± 0.887 (1.83)**	pCi/L	10/18/23 16:39	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 617990
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354472001, 50354472002, 50354472003, 50354472004, 50354472005

METHOD BLANK: 3010029 Matrix: Water
Associated Lab Samples: 50354472001, 50354472002, 50354472003, 50354472004, 50354472005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.537 ± 0.339 (0.624) C:74% T:86%	pCi/L	10/05/23 12:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 616403
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354018001, 50354018002, 50354018003, 50354018004, 50354018005, 50354018006

METHOD BLANK: 3001860 Matrix: Water
Associated Lab Samples: 50354018001, 50354018002, 50354018003, 50354018004, 50354018005, 50354018006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.157 ± 0.272 (0.485) C:NA T:83%	pCi/L	09/28/23 12:48	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 619924
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355128001, 50355128002

METHOD BLANK: 3020349 Matrix: Water
Associated Lab Samples: 50355128001, 50355128002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.970 ± 0.513 (0.899) C:77% T:68%	pCi/L	10/16/23 12:11	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 618303
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354589001, 50354589002, 50354589003

METHOD BLANK: 3011676
Matrix: Water
Associated Lab Samples: 50354589001, 50354589002, 50354589003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.144 ± 0.298 (0.659) C:83% T:83%	pCi/L	10/06/23 14:56	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 618302
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354589001, 50354589002, 50354589003

METHOD BLANK: 3011675
Matrix: Water
Associated Lab Samples: 50354589001, 50354589002, 50354589003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.134 ± 0.291 (0.538) C:NA T:93%	pCi/L	10/09/23 12:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 617989
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354472001, 50354472002, 50354472003, 50354472004, 50354472005

METHOD BLANK: 3010028 Matrix: Water
Associated Lab Samples: 50354472001, 50354472002, 50354472003, 50354472004, 50354472005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0461 ± 0.239 (0.553) C:NA T:98%	pCi/L	10/06/23 13:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 617970 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: 50354380001, 50354380002, 50354380003, 50354380004, 50354380005, 50354380006

METHOD BLANK: 3009992 Matrix: Water
Associated Lab Samples: 50354380001, 50354380002, 50354380003, 50354380004, 50354380005, 50354380006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0896 ± 0.249 (0.587) C:NA T:92%	pCi/L	10/04/23 12:44	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 617971
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354380001, 50354380002, 50354380003, 50354380004, 50354380005, 50354380006

METHOD BLANK: 3009993 Matrix: Water
Associated Lab Samples: 50354380001, 50354380002, 50354380003, 50354380004, 50354380005, 50354380006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.253 ± 0.297 (0.621) C:84% T:84%	pCi/L	10/03/23 11:40	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 617724 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: 50354176001, 50354275001, 50354275002, 50354275003, 50354275004, 50354275005, 50354275006, 50354275007, 50354275008

METHOD BLANK: 3008841 Matrix: Water
Associated Lab Samples: 50354176001, 50354275001, 50354275002, 50354275003, 50354275004, 50354275005, 50354275006, 50354275007, 50354275008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0912 ± 0.208 (0.491) C:NA T:80%	pCi/L	10/05/23 12:56	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 616724
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354090001, 50354090002, 50354090003, 50354090004

METHOD BLANK: 3003474 Matrix: Water
Associated Lab Samples: 50354090001, 50354090002, 50354090003, 50354090004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.796 ± 0.476 (0.868) C:75% T:67%	pCi/L	10/03/23 12:44	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 619922
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355128001, 50355128002

METHOD BLANK: 3020345
Matrix: Water
Associated Lab Samples: 50355128001, 50355128002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0920 ± 0.255 (0.495) C:NA T:82%	pCi/L	10/16/23 13:03	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 616415
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50353853001, 50353853002

METHOD BLANK: 3001920 Matrix: Water
Associated Lab Samples: 50353853001, 50353853002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.467 ± 0.324 (0.612) C:72% T:89%	pCi/L	09/28/23 15:10	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 616414
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50353853001, 50353853002

METHOD BLANK: 3001913 Matrix: Water
Associated Lab Samples: 50353853001, 50353853002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0486 ± 0.222 (0.358) C:NA T:94%	pCi/L	09/28/23 14:33	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 620289
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355216001, 50355216002, 50355216003, 50355216004, 50355216005

METHOD BLANK: 3022383 Matrix: Water
Associated Lab Samples: 50355216001, 50355216002, 50355216003, 50355216004, 50355216005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.942 ± 0.346 (0.423) C:82% T:84%	pCi/L	10/16/23 15:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 618990
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354670001, 50354670002, 50354670003, 50354670004, 50354670005, 50354670006

METHOD BLANK: 3015508 Matrix: Water
Associated Lab Samples: 50354670001, 50354670002, 50354670003, 50354670004, 50354670005, 50354670006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.169 ± 0.301 (0.657) C:85% T:82%	pCi/L	10/11/23 11:13	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 620288
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355216001, 50355216002, 50355216003, 50355216004, 50355216005

METHOD BLANK: 3022382 Matrix: Water
Associated Lab Samples: 50355216001, 50355216002, 50355216003, 50355216004, 50355216005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.223 (0.454) C:NA T:85%	pCi/L	10/16/23 12:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 618989
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354670001, 50354670002, 50354670003, 50354670004, 50354670005, 50354670006

METHOD BLANK: 3015504 Matrix: Water
Associated Lab Samples: 50354670001, 50354670002, 50354670003, 50354670004, 50354670005, 50354670006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.458 ± 0.390 (0.548) C:NA T:81%	pCi/L	10/10/23 14:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 617725
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354176001, 50354275001, 50354275002, 50354275003, 50354275004, 50354275005, 50354275006, 50354275007, 50354275008

METHOD BLANK: 3008842 Matrix: Water
Associated Lab Samples: 50354176001, 50354275001, 50354275002, 50354275003, 50354275004, 50354275005, 50354275006, 50354275007, 50354275008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.256 ± 0.307 (0.646) C:74% T:83%	pCi/L	10/04/23 12:14	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 619597
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355024001, 50355024002

METHOD BLANK: 3018593 Matrix: Water
Associated Lab Samples: 50355024001, 50355024002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.576 ± 0.368 (0.685) C:86% T:83%	pCi/L	10/12/23 14:30	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 619594
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355024001, 50355024002

METHOD BLANK: 3018589 Matrix: Water
Associated Lab Samples: 50355024001, 50355024002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.378 ± 0.324 (0.439) C:NA T:93%	pCi/L	10/12/23 13:07	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 616723
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354090001, 50354090002, 50354090003, 50354090004

METHOD BLANK: 3003473 Matrix: Water
Associated Lab Samples: 50354090001, 50354090002, 50354090003, 50354090004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.203 ± 0.265 (0.437) C:NA T:85%	pCi/L	10/02/23 13:32	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Assessment
Pace Project No.: 50353853

QC Batch: 616404
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50354018001, 50354018002, 50354018003, 50354018004, 50354018005, 50354018006

METHOD BLANK: 3001867 Matrix: Water
Associated Lab Samples: 50354018001, 50354018002, 50354018003, 50354018004, 50354018005, 50354018006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.524 ± 0.419 (0.827) C:77% T:73%	pCi/L	10/03/23 11:35	

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QUALIFIERS

Project: RMSGS Assessment
Pace Project No.: 50353853

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 (%)

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TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50353853001	**GAMW-01-091323**	EPA 903.1	616414		
50353853002	**GAMW-01B-091323**	EPA 903.1	616414		
50354018001	**GAMW-14-091423**	EPA 903.1	616403		
50354018002	**GAMW-14B-091423**	EPA 903.1	616403		
50354018003	**GAMW-13-091423**	EPA 903.1	616403		
50354018004	**GAMW-13-091423 MS**	EPA 903.1	616403		
50354018005	**GAMW-13-091423 MSD**	EPA 903.1	616403		
50354018006	**GAMW-13B-091423**	EPA 903.1	616403		
50354090001	**GAMW-12-091523**	EPA 903.1	616723		
50354090002	**GAMW-12B-091523**	EPA 903.1	616723		
50354090003	**GAMW-03-091523**	EPA 903.1	616723		
50354090004	**GAMW-03B-091523**	EPA 903.1	616723		
50354176001	**GAMW-51-091823**	EPA 903.1	617724		
50354275001	**GAMW-51B-091923**	EPA 903.1	617724		
50354275002	**GAMW-08-091923**	EPA 903.1	617724		
50354275003	**GAMW-08B-091923**	EPA 903.1	617724		
50354275004	**FD-03-091923**	EPA 903.1	617724		
50354275005	**FB-04-091923**	EPA 903.1	617724		
50354275006	**GAMW-60-091923**	EPA 903.1	617724		
50354275007	**GAMW-60B-091923**	EPA 903.1	617724		
50354275008	**GAMW-59-091923**	EPA 903.1	617724		
50354380001	**GAMW-16R-092023**	EPA 903.1	617970		
50354380002	**GAMW-16R-092023 MS**	EPA 903.1	617970		
50354380003	**GAMW-16R-092023 MSD**	EPA 903.1	617970		
50354380004	**GAMW-16BR-092023**	EPA 903.1	617970		
50354380005	**GAMW-59B-092023**	EPA 903.1	617970		
50354380006	**GAMW-17-092023**	EPA 903.1	617970		
50354472001	**GAMW-09-092123**	EPA 903.1	617989		
50354472002	**GAMW-09B-092123**	EPA 903.1	617989		
50354472003	**GAMW-18-092123**	EPA 903.1	617989		
50354472004	**FB-03-092123**	EPA 903.1	617989		
50354472005	**FD-04-092123**	EPA 903.1	617989		
50354589001	**GAMW-18B-092223**	EPA 903.1	618302		
50354589002	**GAMW-56-092223**	EPA 903.1	618302		
50354589003	**FD-05-092223**	EPA 903.1	618302		
50354670001	**GAMW-54-092523**	EPA 903.1	618989		
50354670002	**GAMW-54B-092523**	EPA 903.1	618989		
50354670003	**FB-05-092523**	EPA 903.1	618989		
50354670004	**GAMW-56B-092523**	EPA 903.1	618989		
50354670005	**GAMW-52-092523**	EPA 903.1	618989		
50354670006	**GAMW-52B-092523**	EPA 903.1	618989		
50355024001	**GAMW-53-092823**	EPA 903.1	619594		
50355024002	**GAMW-53B-092823**	EPA 903.1	619594		
50355128001	**GAMW-55R-092923**	EPA 903.1	619922		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355128002	**GAMW-55B-092923**	EPA 903.1	619922		
50355216001	**GAMW-17B-100223**	EPA 903.1	620288		
50355216002	**GAMW-68-100223**	EPA 903.1	620288		
50355216003	**GAMW-68B-100223**	EPA 903.1	620288		
50355216004	**FD-06-100223**	EPA 903.1	620288		
50355216005	**FB-06-100223**	EPA 903.1	620288		
50353853001	**GAMW-01-091323**	EPA 904.0	616415		
50353853002	**GAMW-01B-091323**	EPA 904.0	616415		
50354018001	**GAMW-14-091423**	EPA 904.0	616404		
50354018002	**GAMW-14B-091423**	EPA 904.0	616404		
50354018003	**GAMW-13-091423**	EPA 904.0	616404		
50354018004	**GAMW-13-091423 MS**	EPA 904.0	616404		
50354018005	**GAMW-13-091423 MSD**	EPA 904.0	616404		
50354018006	**GAMW-13B-091423**	EPA 904.0	616404		
50354090001	**GAMW-12-091523**	EPA 904.0	616724		
50354090002	**GAMW-12B-091523**	EPA 904.0	616724		
50354090003	**GAMW-03-091523**	EPA 904.0	616724		
50354090004	**GAMW-03B-091523**	EPA 904.0	616724		
50354176001	**GAMW-51-091823**	EPA 904.0	617725		
50354275001	**GAMW-51B-091923**	EPA 904.0	617725		
50354275002	**GAMW-08-091923**	EPA 904.0	617725		
50354275003	**GAMW-08B-091923**	EPA 904.0	617725		
50354275004	**FD-03-091923**	EPA 904.0	617725		
50354275005	**FB-04-091923**	EPA 904.0	617725		
50354275006	**GAMW-60-091923**	EPA 904.0	617725		
50354275007	**GAMW-60B-091923**	EPA 904.0	617725		
50354275008	**GAMW-59-091923**	EPA 904.0	617725		
50354380001	**GAMW-16R-092023**	EPA 904.0	617971		
50354380002	**GAMW-16R-092023 MS**	EPA 904.0	617971		
50354380003	**GAMW-16R-092023 MSD**	EPA 904.0	617971		
50354380004	**GAMW-16BR-092023**	EPA 904.0	617971		
50354380005	**GAMW-59B-092023**	EPA 904.0	617971		
50354380006	**GAMW-17-092023**	EPA 904.0	617971		
50354472001	**GAMW-09-092123**	EPA 904.0	617990		
50354472002	**GAMW-09B-092123**	EPA 904.0	617990		
50354472003	**GAMW-18-092123**	EPA 904.0	617990		
50354472004	**FB-03-092123**	EPA 904.0	617990		
50354472005	**FD-04-092123**	EPA 904.0	617990		
50354589001	**GAMW-18B-092223**	EPA 904.0	618303		
50354589002	**GAMW-56-092223**	EPA 904.0	618303		
50354589003	**FD-05-092223**	EPA 904.0	618303		
50354670001	**GAMW-54-092523**	EPA 904.0	618990		
50354670002	**GAMW-54B-092523**	EPA 904.0	618990		
50354670003	**FB-05-092523**	EPA 904.0	618990		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50354670004	**GAMW-56B-092523**	EPA 904.0	618990		
50354670005	**GAMW-52-092523**	EPA 904.0	618990		
50354670006	**GAMW-52B-092523**	EPA 904.0	618990		
50355024001	**GAMW-53-092823**	EPA 904.0	619597		
50355024002	**GAMW-53B-092823**	EPA 904.0	619597		
50355128001	**GAMW-55R-092923**	EPA 904.0	619924		
50355128002	**GAMW-55B-092923**	EPA 904.0	619924		
50355216001	**GAMW-17B-100223**	EPA 904.0	620289		
50355216002	**GAMW-68-100223**	EPA 904.0	620289		
50355216003	**GAMW-68B-100223**	EPA 904.0	620289		
50355216004	**FD-06-100223**	EPA 904.0	620289		
50355216005	**FB-06-100223**	EPA 904.0	620289		
50353853001	**GAMW-01-091323**	Total Radium Calculation	619040		
50353853002	**GAMW-01B-091323**	Total Radium Calculation	619040		
50354018001	**GAMW-14-091423**	Total Radium Calculation	620495		
50354018002	**GAMW-14B-091423**	Total Radium Calculation	620495		
50354018003	**GAMW-13-091423**	Total Radium Calculation	620495		
50354018006	**GAMW-13B-091423**	Total Radium Calculation	620495		
50354090001	**GAMW-12-091523**	Total Radium Calculation	620495		
50354090002	**GAMW-12B-091523**	Total Radium Calculation	620495		
50354090003	**GAMW-03-091523**	Total Radium Calculation	620495		
50354090004	**GAMW-03B-091523**	Total Radium Calculation	620495		
50354176001	**GAMW-51-091823**	Total Radium Calculation	620817		
50354275001	**GAMW-51B-091923**	Total Radium Calculation	620817		
50354275002	**GAMW-08-091923**	Total Radium Calculation	620817		
50354275003	**GAMW-08B-091923**	Total Radium Calculation	620817		
50354275004	**FD-03-091923**	Total Radium Calculation	620817		
50354275005	**FB-04-091923**	Total Radium Calculation	620817		
50354275006	**GAMW-60-091923**	Total Radium Calculation	620817		
50354275007	**GAMW-60B-091923**	Total Radium Calculation	620817		
50354275008	**GAMW-59-091923**	Total Radium Calculation	620817		
50354380001	**GAMW-16R-092023**	Total Radium Calculation	621046		
50354380004	**GAMW-16BR-092023**	Total Radium Calculation	621046		
50354380005	**GAMW-59B-092023**	Total Radium Calculation	621046		
50354380006	**GAMW-17-092023**	Total Radium Calculation	621046		
50354472001	**GAMW-09-092123**	Total Radium Calculation	621415		
50354472002	**GAMW-09B-092123**	Total Radium Calculation	621415		
50354472003	**GAMW-18-092123**	Total Radium Calculation	621415		
50354472004	**FB-03-092123**	Total Radium Calculation	621415		
50354472005	**FD-04-092123**	Total Radium Calculation	621415		
50354589001	**GAMW-18B-092223**	Total Radium Calculation	621173		
50354589002	**GAMW-56-092223**	Total Radium Calculation	621173		
50354589003	**FD-05-092223**	Total Radium Calculation	621173		
50354670001	**GAMW-54-092523**	Total Radium Calculation	623216		

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Assessment
Pace Project No.: 50353853

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50354670002	**GAMW-54B-092523**	Total Radium Calculation	623216		
50354670003	**FB-05-092523**	Total Radium Calculation	623216		
50354670004	**GAMW-56B-092523**	Total Radium Calculation	623216		
50354670005	**GAMW-52-092523**	Total Radium Calculation	623216		
50354670006	**GAMW-52B-092523**	Total Radium Calculation	623216		
50355024001	**GAMW-53-092823**	Total Radium Calculation	622754		
50355024002	**GAMW-53B-092823**	Total Radium Calculation	622754		
50355128001	**GAMW-55R-092923**	Total Radium Calculation	623210		
50355128002	**GAMW-55B-092923**	Total Radium Calculation	623210		
50355216001	**GAMW-17B-100223**	Total Radium Calculation	623324		
50355216002	**GAMW-68-100223**	Total Radium Calculation	623324		
50355216003	**GAMW-68B-100223**	Total Radium Calculation	623324		
50355216004	**FD-06-100223**	Total Radium Calculation	623324		
50355216005	**FB-06-100223**	Total Radium Calculation	623324		

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WO# : 50353853

50353853

st Document
ds must be completed accurately.

Page : Of

Section A — Required Client Information:

Company:	NiSource_WSP
Address:	801 E. 86th Avenue
	Merrillville, IN 46410
Email:	Thomas.Haskins@wsp.com
Phone:	(603)782-2433 Fax:
Requested Due Date:	10 day TAT

Section B — Required Project Information:

Report To:	Tom Haskins
Copy To:	Gabriel Dixon, Danielle Sylvia
	Sarah Gilles
Purchase Order #:	PO33924
Project Name:	RMSGS Assessment
Project #:	31404789.011

Invoice Information:

Attention:	Jeff Loewe U126177
Company Name:	NiSource
Address:	
Pace Quote:	
Pace Project Manager:	tina.sayer@pacelabs.com,
Pace Profile #:	9045-3

Regulatory Agency:

State / Location: IN

Requested Analysis Filtered (Y/N)

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

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Analyses Test: Radium 226+228(sum)	Residual Chlorine (Y/N)
1	GAMW-01 - 091323	WT	G			9/13/23	1330		2			2						X	X	
2	GAMW-01B - 091323	WT	G			9/13/23	1430		2			2						X	X	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	FE / WSP	9/13/23	1630	FE Daniel Pearson / Pace	9/14/23	0915	1.1	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/13/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 09/14/23 10:40

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

2. Custody Seal on Cooler/Box Present: ☑ Yes ☐ No

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

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

4. Cooler Temperature(s): 1.1/1.1°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/ZPLC

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.** **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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50354018

50354018

cument
be completed accurately.

Page : Of

Section A
Required Client Information:
Company: NiSource_WSP
Address: 801 E. 86th Avenue
Merrillville, IN 46410
Email: Thomas.Haskins@wsp.com
Phone: (603)782-2433 Fax
Requested Due Date: 10 day TAT

Section B
Required Project Information:
Report To: Tom Haskins
Copy To: Gabriel Dixon, Danielle Sylvia
Sarah Gilles
Purchase Order #: PO33924
Project Name: RMSGS Assessment
Project #: 31404789.011

Invoice Information:
Attention: Jeff Loewe U126177
Company Name: NiSource
Address:
Pace Quote:
Pace Project Manager: tina.sayer@pacelabs.com,
Pace Profile #: 9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Analyses Test: Radium 226+228(sum)	Residual Chlorine (Y/N)
1	GAMW-14-091423	WT	G			9/14/23	1005		2			2							X	
2	GAMW-14B-091423	WT	G			9/14/23	1105		2			2							X	
3	GAMW-13-091423	WT	G			9/14/23	1210		2			2							X	
4	GAMW-13B-091423	WT	G			9/14/23	1325		2			2							X	
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

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

ADDITIONAL COMMENTS
*Sub RadChem to Pace® PA

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
WSP	9/14/23	1600	FedEx		
FedEx	9/15/23	905		9/15/23	905

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: R. GUZMAN
SIGNATURE of SAMPLER:
DATE Signed 9/14/23

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/15/23 1110 TW

1. **Courier:** ☑ FED EX ☐ UPS ☐ CLIENT ☐ PACE ☐ NOW/JETT ☐ OTHER _____
2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No
   (If yes)Seals Intact: ☑ Yes ☐ No **(leave blank if no seals were present)**
3. **Thermometer:** 1 2 3 4 5 6 7 8 A B C D E F G H
4. **Cooler Temperature(s):** 3.5/3.4 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other Plastic/ZPLC
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
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓	
Extra labels on Terracore Vials? (soils only)		

	Yes	No	N/A
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			
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Headspace Wisconsin Sulfide?			✓
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			✓
Trip Blank Present?		✓	
Trip Blank Custody Seals?:			✓

COMMENTS: MS-02/MSD 02 for GAMW-13-091423 TW 9/15/23

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50354090

50354090

Request Document

levant fields must be completed accurately.

Page : Of

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: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource
Merrillville, IN 46410	Sarah Gilles	Address:
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)782-2433 Fax	Project Name: RMSGS Assessment	Pace Project Manager: tina.sayer@pacelabs.com
Requested Due Date: 10 day TAT	Project # 31404789.011	Pace Profile # 9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	GAMW-12-091523	WT	G			9/15/23	1015		2			2							X		001
2	GAMW-12B-091523	WT	G			9/15/23	1100		2			2							X		002
3	GAMW-03-091523	WT	G			9/15/23	1210		2			2							X		003
4	GAMW-03B-091523	WT	G			9/15/23	1425		2			2							X		004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	9/15/23		FedEx						
	FedEx	9-16-23	0905	Mail Stuffed / PACE	9-16-23	0905	0.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/15/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 09·16·2023 1100

1. **Courier:** [X] FED EX [ ] UPS [ ] CLIENT [ ] PACE [ ] NOW/JETT [ ] OTHER _____

2. **Custody Seal on Cooler/Box Present:** [X] Yes [ ] No

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

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

4. **Cooler Temperature(s):** 0.8 / 0.8 | | | |

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

5. **Packing Material:** [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

6. **Ice Type:** [X] 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
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
Short Hold Time Analysis (48 hours or less)? Analysis:		X
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		X
Custody Signatures Present?	X	
Containers Intact?	X	
Sample Label (IDs/Dates/Times) Match COC? Except TCs, which only require sample ID	X	
Extra labels on Terracore Vials? (soils only)		X

	Yes	No	N/A
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 DMP 9/16/23		✓
Circle: (HNO3 (<2)) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Headspace Wisconsin Sulfide?			X
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			X
Trip Blank Present?		X	
Trip Blank Custody Seals?:			X

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit	Matrix
1																2											WT
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

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

DMP 9/16/23

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

CHAIN-OF-CUSTODY / Analytical Request

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

WO# : 50354176

50354176

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

Regulatory Agency	
State / Location	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)
1	BMW-57-091823	WT	G			9/18/23	1415		2			2						X	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	WSP	9/19/23	1630	Fedex						
	Fedex	9/19/23	0905		9/19/23	0905	0.8	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/18/23

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

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/19/23 1100 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):** 0.9/0.8 | | | |

(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
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
Short Hold Time Analysis (48 hours or less)? Analysis:		X
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		X
Custody Signatures Present?	X	
Containers Intact?:	X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X	
Extra labels on Terracore Vials? (soils only)		X

	Yes	No	N/A
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 LR 9/19	X		
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Headspace Wisconsin Sulfide?			X
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			X
Trip Blank Present?		X	
Trip Blank Custody Seals?:			X

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50354275

50354275

cal Request Document

All relevant fields must be completed accurately.

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	GAMW-51B-091923	WT	G			9/19/23	1105		2			2							X		001
2	GAMW-08-091923	WT	G			9/19/23	1240		2			2							X		002
3	GAMW-08B-091923	WT	G			9/19/23	1355		2			2							X		003
4	FD-03-091923	WT	G			9/19/23	1200		2			2							X		004
5	FB-04-091923	WT	G			9/19/23	1410		2			2							X		005
6	GAMW-60-091923	WT	G			9/19/23	1105		2			2							X		006
7	GAMW-60B-091923	WT	G			9/19/23	1220		2			2							X		007
8	GAMW-59-091923	WT	G			9/19/23	1320		2			2							X		008
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	WSP	9/19/23	1630	Fedex						
	Fedex	9/20/23	0920		9/20/23	0920	See SCR	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 9/19/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/20/23 0950 LR

1. **Courier:** [X] FED EX [ ] UPS [ ] CLIENT [ ] PACE [ ] NOW/JETT [ ] OTHER _____

2. **Custody Seal on Cooler/Box Present:** [X] Yes [ ] No

(If yes)Seals Intact: [X] 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)

1.4/1.3	1.5/1.4		

5. **Packing Material:** [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

6. **Ice Type:** [X] 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
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:

COC PAGE 1 **of** 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50354380

50354380

CHAIN-OF

The Chain-of-C ... accurately.

Page : Of

Section A Required Client Information:	Section B Required Project Information:	Invoice Information:
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177
Address: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource
Merrillville, IN 46410	Sarah Gilles	Address:
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)782-2433 Fax	Project Name: RMSGS Assessment	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	GRMW-16R-092023	WT	G			9/20/23	1045		2			2							X		MS-03/MSD-03 001/002/003
2	GRMW-16BR-092023	WT	G			9/20/23	1240		2			2							X		004
3	GRMW-59B-092023	WT	G			9/20/23	1145		2			2							X		005
4	GRMW-17-092023	WT	G			9/20/23	1310		2			2							X		006
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	WSP	9/20/23	1100	Fedex						
	Fedex	9/21/23	0920		9/21/23	0920	See SCR	Y	Y	Y

SAMPLER NAME AND SIGNATURE							
PRINT Name of SAMPLER:		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		
SIGNATURE of SAMPLER:	DATE Signed: 9/20/23						

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/21/23 1015 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)

1.0/1.0	0.6/0.6		

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 LR 9/21		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
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:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit	Matrix
1																6											WT
2																2											
3																↓											
4																											↓
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

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 Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789-011 RG	Pace Profile #:	9045-3

Regulatory Agency:

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	GAMW-09-092123	WT	G			9/21/23	1055		2			2						X	X		001
2	GAMW-09B-092123	WT	G			9/21/23	1205		2			2						X	X		002
3	GAMW-18-092123	WT	G			9/21/23	1330		2			2						X	X		003
4	FB-03-092123	WT	G			9/21/23	1055		2			2						X	X		004
5	FD-04-092123	WT	G			9/21/23	1200		2			2						X	X		005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP	9/21/23	1630	FedEx						
	FedEx	9-22-23	9:25		9-22-23	9:25	0.9 / 0.7	y	y	y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 9/21/23

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: BC 9-22-23 11:30

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):** 0.4/0.9 | 0.7/0.7 | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

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

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

	Yes	No
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓
Short Hold Time Analysis (48 hours or less)? Analysis:		✓
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	✓
Rush TAT Requested (4 days or less):		✓
Custody Signatures Present?	✓	
Containers Intact?:	✓	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓	
Extra labels on Terracore Vials? (soils only)		

	Yes	No	N/A
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) RAD Any non-conformance to pH recommendations will be noted on the container count form		✓	
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			✓
Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Headspace Wisconsin Sulfide?			✓
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			✓
Trip Blank Present?		✓	
Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

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

BC 9-22-23

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50354589

50354589

CHAIN-OF-CUSTODY / Analytical Request

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

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource	
	Merrillville, IN 46410		Sarah Gilles	Address:		Regulatory Agency
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:		
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,	State / Location
Requested Due Date:	10 day TAT	Project #:	314047B9.011	Pace Profile #:	9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	GRAMW-1BB-092223	WT	G			9/22/23	1040		2			2							X		001
2	GRAMW-56-092223	WT	G			9/22/23	1200		2			2							X		002
3	FD-05-092223	WT	G			9/22/23	1200		2			2							X		003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*Sub RadChem to Pace® PA	FE/WSP	9/22/23	1500	FE Daniel Pearson/Pace	9/23/23	0905	1.1	Y	N	Y
							TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. GUDMAN

SIGNATURE of SAMPLER: DATE Signed: 9/22/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 09/23/23 11:50

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

2. **Custody Seal on Cooler/Box Present:** ☐ Yes ☑ No *

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

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

4. **Cooler Temperature(s):** 1.2°/1.1°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)		✓	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:		✓				✓
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)		N/A	Trip Blank Custody Seals?:			✓

COMMENTS: * The cooler may have originally been rcvd custody sealed, but upon reciept, tape/seal was ripped off from an unknown cooler on the Fedex truck. DMP 9/23/23

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic
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

CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50354670

50354670

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource	
	Merrillville, IN 46410		Sarah Gilles	Address:		Regulatory Agency
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:		
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,	State / Location
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	GAMW-54-092523	WT	G			9/25/23	1105		2			2							X		001
2	GAMW-54B-092523	WT	G			9/25/23	1245		2			2							X			002
3	FB-05-092523	WT	G			9/25/23	1320		2			2							X			003
4	GAMW-56B-092523	WT	G			9/25/23	1035		2			2							X			004
5	GAMW-52-092523	WT	G			9/25/23	1140		2			2							X			005
6	GAMW-52B-092523	WT	G			9/25/23	1305		2			2							X			006
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	WSP	9/25/23	1600	FedEx	9.26.23	0915	
	FedEX	9.26.23	0915	Centera Webb	9.26.23	0915	
							2.5/25 Y Y Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: R. Gilles

SIGNATURE of SAMPLER: DATE Signed: 9/25/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: CTW 9.26.23

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

2. **Custody Seal on Cooler/Box Present:** ☑ Yes ☐ No

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

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

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

5. **Packing Material:** ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☑ Wet ☐ Blue ☐ None

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

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	All containers needing acid/base preservation have been pH CHECKED?: **Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.** Circle: ~~HNO3~~ (<2) ~~H2SO4~~ (≤2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form RC 9-26-23	✓		
Short Hold Time Analysis (48 hours or less)? **Analysis:** ~~NO3~~ RC 9-26-23	~~✓~~	✓				
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): RC 9-26-23	~~✓~~	✓	Residual Chlorine Check (Total/Amenable/Free Cyanide)			✓
Custody Signatures Present?	✓		Headspace Wisconsin Sulfide? RC 9-26-23		~~✓~~	✓
			Headspace in VOA Vials (>6mm):	Present	Absent	No VOA Vials Sent
Containers Intact?:	✓		See Containter Count form for details			✓
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:

COC PAGE ____ of ____

Sample Container Count

** Place a RED dot on conta... that are out of conformance **

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

CHAIN-OF-CUSTODY / Analytical Request D

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

WO# : 50355024

50355024

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax:	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)
1	GAMW-53 - 092823	WT	G			9/28/23	1115		2			2							X	
2	GAMW-53B - 092823	WT	G			9/28/23	1205		2			2							X	
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	WSP / Fedex	9/28/23	1630	Fedex						
	Fedex	9/29/23	0925		9/29/23	0925	2.0	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 9/28/23

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 9/29/23 1135 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):** 2.0/2.0 | | | | **(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)		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 LR 9/29		X
Short Hold Time Analysis (48 hours or less)? Analysis:						
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
			Headspace in VOA Vials (>6mm):	Present	Absent	No VOA Vials Sent
Containers Intact?:	X		See Containter Count form for details			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:

COC PAGE 1 of 1

Sample Container Count

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

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

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50355128

50355128

Pace Analytical

Document

must be completed accurately.

Page : Of

Section A Required Client Information:	Section B Required Project Information:		
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	Regulatory Agency
Address: 801 E. 86th Avenue	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource	
Merrillville, IN 46410	Sarah Gilles	Address:	
Email: Thomas.Haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)782-2433 Fax	Project Name: RMSGS Assessment	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Radium 226+228(sum)	Residual Chlorine (Y/N)	
1	GRMW-55R-092923	WT	G			9/29/23	1120		2			2						X	X		001
2	GRMW-55B-092923	WT	G			9/29/23	1250		2			2						X	X		002
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
*Sub RadChem to Pace® PA	FE WSP	9/29/23	1800	FE Daniel Pearson/Pace	9/30/23	09:15	0.8	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 9/29/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: DMP 09/30/23 11:10

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°C / 0.8°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)		✓	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:		✓				✓
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)		N/A	Trip Blank Present?		✓	
			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix	Nitric Red HNO3 <2	Sulfuric Yellow H2SO4 <2	Sodium Hydroxide Green NaOH >10	Sodium Hydroxide/ ZnAc Black NaOH/Zn Ac >9
1																22												WT				
2																2												WT				
3																																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

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

WO# : 50355216

50355216

CHAIN-OF-CUSTODY / Analyti

The Chain-of-Custody is a LEGAL DOCUMENT.

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:	801 E. 86th Avenue	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrillville, IN 46410		Sarah Gilles	Address:	
Email:	Thomas.Haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)782-2433 Fax	Project Name:	RMSGS Assessment	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

Regulatory Agency

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+228(sum)	Residual Chlorine (Y/N)
1	GAMW-17B-100223	WT	G			10/2/23	1105		2			2							X	
2	GAMW-6B-100223	WT	G			10/2/23	1305		2			2							X	
3	GAMW-66B-100223	WT	G			10/2/23	1435		2			2							X	
RA	~~GAMW~~ FD-06-100223	WT	G			10/2/23	1200		2			2							X	
5	FB-06-100223	WT	G			10/2/23	1440		2			2							X	
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	WSP	10/2/23	1700	fedex	10/2/23	1700	
	Fedex	10/3/23	0830	CR	10/31/23	0830	1.4 4 4 4

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed: 10/2/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
1.4	4	4	4

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/3/23 0922 CAR

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

2. **Custody Seal on Cooler/Box Present:** ☒ Yes ☐ No

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

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

4. **Cooler Temperature(s):** 1.9/1.4 | 0.7/0.7 | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

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

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		✓	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:		✓				
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?			✓
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present	Absent	No VOA Vials Sent ✓
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	✓		Trip Blank Present?		✓	
Extra labels on Terracore Vials? (soils only)			Trip Blank Custody Seals?:			✓

COMMENTS:

COC PAGE ____ of ____

Sample Container Count

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

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

Container Codes

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DG9H	40mL HCl amber voa vial	BG1T	glass
DG9P	40mL TSP amber vial	BG1U	1L unpreserved glass
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DG9T	40mL Na Thio amber vial	AG0U	100mL unpres amber glass
DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
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I	~~40mL w/hexane wipe vial~~	AG2N	500mL HNO3 amber glass
WGKU	8oz unpreserved clear jar	AG2S	500mL H2SO4 amber glass
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JGFU	4oz unpreserved amber wide	AG3S	250mL H2SO4 amber glass
CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

October 26, 2023

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

RE: Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between October 04, 2023 and October 12, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Indianapolis

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

Sincerely,

Tina Sayer

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

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

CERTIFICATIONS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

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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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE SUMMARY

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355350001	**GAMW-46-100323**	Water	10/03/23 13:25	10/04/23 09:20
50355500001	**GAMW-46B-100423**	Water	10/04/23 10:45	10/05/23 09:20
50355500002	**GAMW-42-100423**	Water	10/04/23 12:20	10/05/23 09:20
50355500003	**GAMW-42B-100423**	Water	10/04/23 13:55	10/05/23 09:20
50355927001	**GAMW-42C-100923**	Water	10/09/23 11:55	10/10/23 09:25
50355927002	**GAMW-43-100923**	Water	10/09/23 13:10	10/10/23 09:25
50355927003	**GAMW-43B-100923**	Water	10/09/23 14:05	10/10/23 09:25
50355927004	**FD-07-100923**	Water	10/09/23 12:00	10/10/23 09:25
50356097001	**GAMW-44-101023**	Water	10/10/23 10:45	10/11/23 09:20
50356097002	**GAMW-44B-101023**	Water	10/10/23 11:45	10/11/23 09:20
50356097003	**GAMW-57-101023**	Water	10/10/23 13:10	10/11/23 09:20
50356097004	**FB-07-101023**	Water	10/10/23 14:00	10/11/23 09:20
50356256001	**GAMW-57B-101123**	Water	10/11/23 10:05	10/12/23 09:25
50356256002	**GAMW-58-101123**	Water	10/11/23 11:30	10/12/23 09:25
50356256003	**GAMW-58B-101123**	Water	10/11/23 12:30	10/12/23 09:25

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355350001	**GAMW-46-100323**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	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
50355500001	**GAMW-46B-100423**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	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
50355500002	**GAMW-42-100423**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	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
50355500003	**GAMW-42B-100423**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	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	RJP	1	PASI-I
50355927001	**GAMW-42C-100923**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	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
50355927002	**GAMW-43-100923**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	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
50355927003	**GAMW-43B-100923**	EPA 9056	KBB	3	PASI-I

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	MTM	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
50355927004	**FD-07-100923**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	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
50356097001	**GAMW-44-101023**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		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
50356097002	**GAMW-44B-101023**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		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
50356097003	**GAMW-57-101023**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		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
50356097004	**FB-07-101023**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		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
50356256001	**GAMW-57B-101123**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50356256002	**GAMW-58-101123**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I
50356256003	**GAMW-58B-101123**	EPA 9056	KBB	3	PASI-I
		EPA 6010	MTM	3	PASI-I
		EPA 6020	MGM	11	PASI-I
		EPA 7470	EAE	1	PASI-I
		SM 2540C	IRH	1	PASI-I
		SM 4500-H+B	LHZ	1	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355350001	**GAMW-46-100323**					
EPA 9056	Chloride	2.0	mg/L	0.25	10/14/23 05:41	
EPA 9056	Sulfate	28.4	mg/L	0.25	10/14/23 05:41	
EPA 6010	Boron	0.036J	mg/L	0.10	10/17/23 14:09	
EPA 6010	Calcium	28.2	mg/L	1.0	10/17/23 14:09	
EPA 6020	Antimony	0.00017J	mg/L	0.0010	10/06/23 04:52	
EPA 6020	Arsenic	0.00045J	mg/L	0.0010	10/06/23 04:52	
EPA 6020	Barium	0.0043	mg/L	0.0010	10/06/23 04:52	
EPA 6020	Chromium	0.00047J	mg/L	0.0020	10/06/23 04:52	
EPA 6020	Cobalt	0.000063J	mg/L	0.0010	10/06/23 04:52	
EPA 6020	Lead	0.000065J	mg/L	0.0010	10/06/23 04:52	
EPA 6020	Molybdenum	0.00065J	mg/L	0.0010	10/06/23 04:52	
SM 2540C	Total Dissolved Solids	96	mg/L	10.0	10/10/23 15:19	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/17/23 16:55	H3
50355500001	**GAMW-46B-100423**					
EPA 9056	Chloride	5.9	mg/L	0.25	10/16/23 16:41	
EPA 9056	Sulfate	53.2	mg/L	2.5	10/16/23 16:57	
EPA 6010	Boron	0.037J	mg/L	0.10	10/17/23 14:15	
EPA 6010	Calcium	53.2	mg/L	1.0	10/17/23 14:15	
EPA 6020	Arsenic	0.00061J	mg/L	0.0010	10/16/23 08:11	
EPA 6020	Barium	0.023	mg/L	0.0010	10/16/23 08:11	
EPA 6020	Chromium	0.00025J	mg/L	0.0020	10/16/23 08:11	
EPA 6020	Cobalt	0.000081J	mg/L	0.0010	10/16/23 08:11	
EPA 6020	Molybdenum	0.0023	mg/L	0.0010	10/16/23 08:11	
SM 2540C	Total Dissolved Solids	193	mg/L	10.0	10/11/23 15:41	
SM 4500-H+B	pH at 25 Degrees C	8.0	Std. Units	0.10	10/17/23 17:07	H3
50355500002	**GAMW-42-100423**					
EPA 9056	Chloride	10.3	mg/L	0.25	10/16/23 17:31	
EPA 9056	Fluoride	0.13	mg/L	0.050	10/16/23 17:31	
EPA 9056	Sulfate	57.1	mg/L	2.5	10/16/23 17:48	
EPA 6010	Boron	0.024J	mg/L	0.10	10/17/23 14:16	
EPA 6010	Calcium	61.7	mg/L	1.0	10/17/23 14:16	
EPA 6020	Arsenic	0.0012	mg/L	0.0010	10/16/23 08:15	
EPA 6020	Barium	0.022	mg/L	0.0010	10/16/23 08:15	
EPA 6020	Chromium	0.00078J	mg/L	0.0020	10/16/23 08:15	
EPA 6020	Cobalt	0.00012J	mg/L	0.0010	10/16/23 08:15	
EPA 6020	Molybdenum	0.0036	mg/L	0.0010	10/16/23 08:15	
SM 2540C	Total Dissolved Solids	253	mg/L	10.0	10/11/23 15:42	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/17/23 17:08	H3
50355500003	**GAMW-42B-100423**					
EPA 9056	Chloride	15.8	mg/L	0.25	10/16/23 18:56	
EPA 9056	Fluoride	0.11	mg/L	0.050	10/16/23 18:56	
EPA 9056	Sulfate	24.1	mg/L	0.25	10/16/23 18:56	
EPA 6010	Boron	0.035J	mg/L	0.10	10/17/23 14:22	
EPA 6010	Calcium	68.4	mg/L	1.0	10/17/23 14:22	
EPA 6020	Arsenic	0.00024J	mg/L	0.0010	10/16/23 08:18	
EPA 6020	Barium	0.021	mg/L	0.0010	10/16/23 08:18	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355500003	**GAMW-42B-100423**					
EPA 6020	Chromium	0.00046J	mg/L	0.0020	10/16/23 08:18	
EPA 6020	Cobalt	0.00015J	mg/L	0.0010	10/16/23 08:18	
EPA 6020	Lead	0.00012J	mg/L	0.0010	10/16/23 08:18	
EPA 6020	Molybdenum	0.0023	mg/L	0.0010	10/16/23 08:18	
SM 2540C	Total Dissolved Solids	246	mg/L	10.0	10/11/23 15:42	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	10/19/23 09:46	H3
50355927001	**GAMW-42C-100923**					
EPA 9056	Chloride	11.9	mg/L	0.25	10/18/23 18:02	
EPA 9056	Fluoride	0.18	mg/L	0.050	10/18/23 18:02	
EPA 9056	Sulfate	4.5	mg/L	0.25	10/18/23 18:02	
EPA 6010	Boron	0.93	mg/L	0.10	10/20/23 15:29	
EPA 6010	Calcium	57.5	mg/L	1.0	10/20/23 15:29	
EPA 6010	Lithium	0.042	mg/L	0.020	10/20/23 15:29	
EPA 6020	Arsenic	0.00024J	mg/L	0.0010	10/13/23 08:06	
EPA 6020	Barium	0.0094	mg/L	0.0010	10/13/23 08:06	
EPA 6020	Chromium	0.00092J	mg/L	0.0020	10/13/23 08:06	
EPA 6020	Cobalt	0.00022J	mg/L	0.0010	10/13/23 08:06	
EPA 6020	Lead	0.00019J	mg/L	0.0010	10/13/23 08:06	
EPA 6020	Molybdenum	0.0024	mg/L	0.0010	10/13/23 08:06	
SM 2540C	Total Dissolved Solids	273	mg/L	10.0	10/12/23 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	10/20/23 16:40	H3
50355927002	**GAMW-43-100923**					
EPA 9056	Chloride	0.62	mg/L	0.25	10/18/23 20:17	
EPA 9056	Fluoride	0.12	mg/L	0.050	10/18/23 20:17	
EPA 9056	Sulfate	19.6	mg/L	0.25	10/18/23 20:17	
EPA 6010	Boron	0.015J	mg/L	0.10	10/20/23 15:35	
EPA 6010	Calcium	32.3	mg/L	1.0	10/20/23 15:35	
EPA 6020	Antimony	0.00013J	mg/L	0.0010	10/13/23 08:09	
EPA 6020	Arsenic	0.0025	mg/L	0.0010	10/13/23 08:09	
EPA 6020	Barium	0.019	mg/L	0.0010	10/13/23 08:09	
EPA 6020	Cadmium	0.000022J	mg/L	0.00020	10/13/23 08:09	
EPA 6020	Chromium	0.00054J	mg/L	0.0020	10/13/23 08:09	
EPA 6020	Cobalt	0.0014	mg/L	0.0010	10/13/23 08:09	
EPA 6020	Lead	0.00012J	mg/L	0.0010	10/13/23 08:09	
EPA 6020	Molybdenum	0.0054	mg/L	0.0010	10/13/23 08:09	
SM 2540C	Total Dissolved Solids	132	mg/L	10.0	10/12/23 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.9	Std. Units	0.10	10/20/23 16:41	H3
50355927003	**GAMW-43B-100923**					
EPA 9056	Chloride	1.5	mg/L	0.25	10/18/23 21:08	
EPA 9056	Fluoride	0.16	mg/L	0.050	10/18/23 21:08	
EPA 9056	Sulfate	16.8	mg/L	0.25	10/18/23 21:08	
EPA 6010	Boron	0.028J	mg/L	0.10	10/20/23 15:36	
EPA 6010	Calcium	38.5	mg/L	1.0	10/20/23 15:36	
EPA 6020	Arsenic	0.00046J	mg/L	0.0010	10/13/23 08:13	
EPA 6020	Barium	0.011	mg/L	0.0010	10/13/23 08:13	
EPA 6020	Chromium	0.00053J	mg/L	0.0020	10/13/23 08:13	

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355927003	**GAMW-43B-100923**					
EPA 6020	Cobalt	0.00013J	mg/L	0.0010	10/13/23 08:13	
EPA 6020	Lead	0.00010J	mg/L	0.0010	10/13/23 08:13	
EPA 6020	Molybdenum	0.0025	mg/L	0.0010	10/13/23 08:13	
SM 2540C	Total Dissolved Solids	135	mg/L	10.0	10/12/23 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.8	Std. Units	0.10	10/20/23 16:42	H3
50355927004	**FD-07-100923**					
EPA 9056	Chloride	1.5	mg/L	0.25	10/18/23 22:32	
EPA 9056	Fluoride	0.16	mg/L	0.050	10/18/23 22:32	
EPA 9056	Sulfate	16.8	mg/L	0.25	10/18/23 22:32	
EPA 6010	Boron	0.028J	mg/L	0.10	10/20/23 15:38	
EPA 6010	Calcium	38.0	mg/L	1.0	10/20/23 15:38	
EPA 6020	Arsenic	0.00047J	mg/L	0.0010	10/13/23 08:27	
EPA 6020	Barium	0.011	mg/L	0.0010	10/13/23 08:27	
EPA 6020	Chromium	0.00061J	mg/L	0.0020	10/13/23 08:27	
EPA 6020	Cobalt	0.00013J	mg/L	0.0010	10/13/23 08:27	
EPA 6020	Lead	0.000096J	mg/L	0.0010	10/13/23 08:27	
EPA 6020	Molybdenum	0.0025	mg/L	0.0010	10/13/23 08:27	
SM 2540C	Total Dissolved Solids	133	mg/L	10.0	10/12/23 13:33	
SM 4500-H+B	pH at 25 Degrees C	7.7	Std. Units	0.10	10/20/23 16:42	H3
50356097001	**GAMW-44-101023**					
EPA 9056	Chloride	1.4	mg/L	0.25	10/20/23 11:41	
EPA 9056	Fluoride	0.12	mg/L	0.050	10/20/23 11:41	
EPA 9056	Sulfate	45.3	mg/L	2.5	10/20/23 11:58	
EPA 6010	Boron	0.042J	mg/L	0.10	10/20/23 15:44	
EPA 6010	Calcium	25.2	mg/L	1.0	10/20/23 15:44	
EPA 6020	Antimony	0.00022J	mg/L	0.0010	10/13/23 08:30	
EPA 6020	Arsenic	0.063	mg/L	0.0010	10/13/23 08:30	
EPA 6020	Barium	0.022	mg/L	0.0010	10/13/23 08:30	
EPA 6020	Beryllium	0.000067J	mg/L	0.00020	10/13/23 08:30	
EPA 6020	Chromium	0.0013J	mg/L	0.0020	10/13/23 08:30	
EPA 6020	Cobalt	0.0011	mg/L	0.0010	10/13/23 08:30	
EPA 6020	Lead	0.000099J	mg/L	0.0010	10/13/23 08:30	
EPA 6020	Molybdenum	0.0093	mg/L	0.0010	10/13/23 08:30	
EPA 6020	Selenium	0.00021J	mg/L	0.0010	10/13/23 08:30	
SM 2540C	Total Dissolved Solids	132	mg/L	10.0	10/16/23 12:04	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/24/23 11:57	H3
50356097002	**GAMW-44B-101023**					
EPA 9056	Chloride	1.6	mg/L	0.25	10/19/23 14:36	
EPA 9056	Fluoride	0.094J	mg/L	0.050	10/19/23 14:36	
EPA 9056	Sulfate	5.3	mg/L	0.25	10/19/23 14:36	
EPA 6010	Boron	0.027J	mg/L	0.10	10/20/23 15:45	
EPA 6010	Calcium	32.9	mg/L	1.0	10/20/23 15:45	
EPA 6020	Arsenic	0.00021J	mg/L	0.0010	10/13/23 08:33	
EPA 6020	Barium	0.0088	mg/L	0.0010	10/13/23 08:33	
EPA 6020	Chromium	0.00047J	mg/L	0.0020	10/13/23 08:33	
EPA 6020	Lead	0.00014J	mg/L	0.0010	10/13/23 08:33	

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356097002	**GAMW-44B-101023**					
EPA 6020	Molybdenum	0.0018	mg/L	0.0010	10/13/23 08:33	
SM 2540C	Total Dissolved Solids	111	mg/L	10.0	10/16/23 12:04	
SM 4500-H+B	pH at 25 Degrees C	7.4	Std. Units	0.10	10/24/23 11:57	H3
50356097003	**GAMW-57-101023**					
EPA 9056	Chloride	0.89	mg/L	0.25	10/19/23 15:09	
EPA 9056	Sulfate	26.6	mg/L	0.25	10/19/23 15:09	
EPA 6010	Boron	0.033J	mg/L	0.10	10/20/23 15:47	
EPA 6010	Calcium	22.7	mg/L	1.0	10/20/23 15:47	
EPA 6020	Arsenic	0.00022J	mg/L	0.0010	10/13/23 08:37	
EPA 6020	Barium	0.0056	mg/L	0.0010	10/13/23 08:37	
EPA 6020	Chromium	0.00090J	mg/L	0.0020	10/13/23 08:37	
EPA 6020	Cobalt	0.000097J	mg/L	0.0010	10/13/23 08:37	
EPA 6020	Lead	0.00016J	mg/L	0.0010	10/13/23 08:37	
EPA 6020	Molybdenum	0.00060J	mg/L	0.0010	10/13/23 08:37	
SM 2540C	Total Dissolved Solids	90	mg/L	10.0	10/16/23 12:05	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/24/23 11:58	H3
50356097004	**FB-07-101023**					
EPA 6020	Barium	0.00038J	mg/L	0.0010	10/13/23 09:04	
EPA 6020	Chromium	0.00022J	mg/L	0.0020	10/13/23 09:04	
SM 4500-H+B	pH at 25 Degrees C	8.1	Std. Units	0.10	10/24/23 12:00	H3
50356256001	**GAMW-57B-101123**					
EPA 9056	Chloride	14.5	mg/L	0.25	10/21/23 05:25	
EPA 9056	Fluoride	0.11	mg/L	0.050	10/21/23 05:25	
EPA 9056	Sulfate	12.1	mg/L	0.25	10/21/23 05:25	
EPA 6010	Boron	0.079J	mg/L	0.10	10/25/23 13:36	
EPA 6010	Calcium	47.3	mg/L	1.0	10/25/23 13:36	
EPA 6020	Arsenic	0.00073J	mg/L	0.0010	10/25/23 19:09	
EPA 6020	Barium	0.021	mg/L	0.0010	10/25/23 19:09	
EPA 6020	Chromium	0.00044J	mg/L	0.0020	10/25/23 19:09	
EPA 6020	Cobalt	0.00010J	mg/L	0.0010	10/25/23 19:09	
EPA 6020	Molybdenum	0.0039	mg/L	0.0010	10/25/23 19:09	
SM 2540C	Total Dissolved Solids	172	mg/L	10.0	10/17/23 11:58	
SM 4500-H+B	pH at 25 Degrees C	7.6	Std. Units	0.10	10/24/23 16:39	H3
50356256002	**GAMW-58-101123**					
EPA 9056	Chloride	0.91	mg/L	0.25	10/21/23 06:16	
EPA 9056	Fluoride	0.41	mg/L	0.050	10/21/23 06:16	
EPA 9056	Sulfate	41.1	mg/L	0.25	10/21/23 06:16	
EPA 6010	Boron	0.039J	mg/L	0.10	10/25/23 13:37	
EPA 6010	Calcium	11.9	mg/L	1.0	10/25/23 13:37	
EPA 6020	Arsenic	0.0056	mg/L	0.0010	10/25/23 19:13	
EPA 6020	Barium	0.035	mg/L	0.0010	10/25/23 19:13	
EPA 6020	Beryllium	0.00063	mg/L	0.00020	10/25/23 19:13	
EPA 6020	Cadmium	0.000082J	mg/L	0.00020	10/25/23 19:13	
EPA 6020	Chromium	0.00089J	mg/L	0.0020	10/25/23 19:13	
EPA 6020	Cobalt	0.012	mg/L	0.0010	10/25/23 19:13	

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7726 Moller Road
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(317)228-3100

SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356256002	**GAMW-58-101123**					
EPA 6020	Lead	0.00031J	mg/L	0.0010	10/25/23 19:13	
EPA 6020	Molybdenum	0.00070J	mg/L	0.0010	10/25/23 19:13	
EPA 6020	Selenium	0.0023	mg/L	0.0010	10/25/23 19:13	
SM 2540C	Total Dissolved Solids	79	mg/L	10.0	10/17/23 11:58	
SM 4500-H+B	pH at 25 Degrees C	7.3	Std. Units	0.10	10/24/23 16:40	H3
50356256003	**GAMW-58B-101123**					
EPA 9056	Chloride	3.9	mg/L	0.25	10/21/23 07:06	
EPA 9056	Fluoride	0.13	mg/L	0.050	10/21/23 07:06	
EPA 9056	Sulfate	20.8	mg/L	0.25	10/21/23 07:06	
EPA 6010	Boron	0.042J	mg/L	0.10	10/25/23 13:39	
EPA 6010	Calcium	40.5	mg/L	1.0	10/25/23 13:39	
EPA 6020	Arsenic	0.00069J	mg/L	0.0010	10/25/23 19:33	
EPA 6020	Barium	0.016	mg/L	0.0010	10/25/23 19:33	
EPA 6020	Chromium	0.00061J	mg/L	0.0020	10/25/23 19:33	
EPA 6020	Cobalt	0.00021J	mg/L	0.0010	10/25/23 19:33	
EPA 6020	Molybdenum	0.0030	mg/L	0.0010	10/25/23 19:33	
SM 2540C	Total Dissolved Solids	129	mg/L	10.0	10/18/23 11:36	
SM 4500-H+B	pH at 25 Degrees C	7.5	Std. Units	0.10	10/24/23 16:42	H3

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Method: **EPA 9056**
Description: 9056 IC Anions
Client: NiSource_WSP Golder
Date: October 26, 2023

General Information:
15 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.

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_WSP Golder
Date: October 26, 2023

General Information:
15 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.

Additional Comments:

Analyte Comments:

QC Batch: 756292

1d: The closing CRDL recovery exceeded acceptance limits (18% recovery). MTM 10/17/23

- BLANK (Lab ID: 3466319)
  - Lithium
- GAMW-42-100423 (Lab ID: 50355500002)
  - Lithium
- GAMW-42B-100423 (Lab ID: 50355500003)
  - Lithium
- GAMW-46-100323 (Lab ID: 50355350001)
  - Lithium
- GAMW-46B-100423 (Lab ID: 50355500001)
  - Lithium
- LCS (Lab ID: 3466320)
  - Lithium

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Method: **EPA 6010**
Description: 6010 MET ICP
Client: NiSource_WSP Golder
Date: October 26, 2023

Analyte Comments:

QC Batch: 756292

1d: The closing CRDL recovery exceeded acceptance limits (18% recovery). MTM 10/17/23

- MS (Lab ID: 3466321)
  - Lithium
- MSD (Lab ID: 3466322)
  - Lithium

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Method: **EPA 6020**
Description: 6020 MET ICPMS
Client: NiSource_WSP Golder
Date: October 26, 2023

General Information:
15 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: 756313

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 50355756001

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

- MS (Lab ID: 3466384)
  - Barium
- MSD (Lab ID: 3466385)
  - Barium
  - Molybdenum

Additional Comments:

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Method: **EPA 7470**
Description: 7470 Mercury
Client: NiSource_WSP Golder
Date: October 26, 2023

General Information:
15 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:

Analyte Comments:

QC Batch: 756688

2d: The opening CRDL recovery exceeded acceptance limits (134.45% recovery).

- FD-07-100923 (Lab ID: 50355927004)
  - Mercury
- GAMW-42C-100923 (Lab ID: 50355927001)
  - Mercury
- GAMW-43-100923 (Lab ID: 50355927002)
  - Mercury
- GAMW-43B-100923 (Lab ID: 50355927003)
  - Mercury

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Method: **SM 2540C**
Description: 2540C Total Dissolved Solids
Client: NiSource_WSP Golder
Date: October 26, 2023

General Information:
15 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: 757508

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

- FB-07-101023 (Lab ID: 50356097004)
  - Total Dissolved Solids

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Method: **SM 4500-H+B**
Description: 4500H+ pH, Electrometric
Client: NiSource_WSP Golder
Date: October 26, 2023

General Information:
15 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-07-101023 (Lab ID: 50356097004)
- FD-07-100923 (Lab ID: 50355927004)
- GAMW-42-100423 (Lab ID: 50355500002)
- GAMW-42B-100423 (Lab ID: 50355500003)
- GAMW-42C-100923 (Lab ID: 50355927001)
- GAMW-43-100923 (Lab ID: 50355927002)
- GAMW-43B-100923 (Lab ID: 50355927003)
- GAMW-44-101023 (Lab ID: 50356097001)
- GAMW-44B-101023 (Lab ID: 50356097002)
- GAMW-46-100323 (Lab ID: 50355350001)
- GAMW-46B-100423 (Lab ID: 50355500001)
- GAMW-57-101023 (Lab ID: 50356097003)
- GAMW-57B-101123 (Lab ID: 50356256001)
- GAMW-58-101123 (Lab ID: 50356256002)
- GAMW-58B-101123 (Lab ID: 50356256003)

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: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-46-100323 **Lab ID: 50355350001** Collected: 10/03/23 13:25 Received: 10/04/23 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	**2.0**	mg/L	0.25	0.067	1		10/14/23 05:41	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		10/14/23 05:41	16984-48-8	
Sulfate	**28.4**	mg/L	0.25	0.19	1		10/14/23 05:41	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	**0.036J**	mg/L	0.10	0.011	1	10/09/23 20:41	10/17/23 14:09	7440-42-8	
Calcium	**28.2**	mg/L	1.0	0.057	1	10/09/23 20:41	10/17/23 14:09	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/09/23 20:41	10/17/23 14:09	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	**0.00017J**	mg/L	0.0010	0.000044	1	10/05/23 07:30	10/06/23 04:52	7440-36-0	
Arsenic	**0.00045J**	mg/L	0.0010	0.000064	1	10/05/23 07:30	10/06/23 04:52	7440-38-2	
Barium	**0.0043**	mg/L	0.0010	0.000067	1	10/05/23 07:30	10/06/23 04:52	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/05/23 07:30	10/06/23 04:52	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/05/23 07:30	10/06/23 04:52	7440-43-9	
Chromium	**0.00047J**	mg/L	0.0020	0.00015	1	10/05/23 07:30	10/06/23 04:52	7440-47-3	
Cobalt	**0.000063J**	mg/L	0.0010	0.000024	1	10/05/23 07:30	10/06/23 04:52	7440-48-4	
Lead	**0.000065J**	mg/L	0.0010	0.000019	1	10/05/23 07:30	10/06/23 04:52	7439-92-1	
Molybdenum	**0.00065J**	mg/L	0.0010	0.000031	1	10/05/23 07:30	10/06/23 04:52	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00023	1	10/05/23 07:30	10/06/23 04:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000042	1	10/05/23 07:30	10/06/23 04:52	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	ug/L	0.20	0.12	1	10/09/23 13:27	10/11/23 09:21	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	**96**	mg/L	10.0	10.0	1		10/10/23 15:19		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.6**	Std. Units	0.10	0.10	1		10/17/23 16:55		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-46B-100423 **Lab ID: 50355500001** Collected: 10/04/23 10:45 Received: 10/05/23 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	**5.9**	mg/L	0.25	0.067	1		10/16/23 16:41	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		10/16/23 16:41	16984-48-8	
Sulfate	**53.2**	mg/L	2.5	1.9	10		10/16/23 16:57	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	**0.037J**	mg/L	0.10	0.011	1	10/09/23 20:41	10/17/23 14:15	7440-42-8	
Calcium	**53.2**	mg/L	1.0	0.057	1	10/09/23 20:41	10/17/23 14:15	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/09/23 20:41	10/17/23 14:15	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	ND	mg/L	0.0010	0.000080	1	10/10/23 15:21	10/16/23 08:11	7440-36-0	
Arsenic	**0.00061J**	mg/L	0.0010	0.00012	1	10/10/23 15:21	10/16/23 08:11	7440-38-2	
Barium	**0.023**	mg/L	0.0010	0.000065	1	10/10/23 15:21	10/16/23 08:11	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/10/23 15:21	10/16/23 08:11	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/10/23 15:21	10/16/23 08:11	7440-43-9	
Chromium	**0.00025J**	mg/L	0.0020	0.00018	1	10/10/23 15:21	10/16/23 08:11	7440-47-3	
Cobalt	**0.000081J**	mg/L	0.0010	0.000071	1	10/10/23 15:21	10/16/23 08:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	10/10/23 15:21	10/16/23 08:11	7439-92-1	
Molybdenum	**0.0023**	mg/L	0.0010	0.000074	1	10/10/23 15:21	10/16/23 08:11	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/10/23 15:21	10/16/23 08:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/10/23 15:21	10/16/23 08:11	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	ug/L	0.20	0.12	1	10/09/23 18:26	10/11/23 10:31	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	**193**	mg/L	10.0	10.0	1		10/11/23 15:41		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**8.0**	Std. Units	0.10	0.10	1		10/17/23 17:07		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-42-100423 **Lab ID: 50355500002** Collected: 10/04/23 12:20 Received: 10/05/23 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	**10.3**	mg/L	0.25	0.067	1		10/16/23 17:31	16887-00-6	
Fluoride	**0.13**	mg/L	0.050	0.017	1		10/16/23 17:31	16984-48-8	
Sulfate	**57.1**	mg/L	2.5	1.9	10		10/16/23 17:48	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	**0.024J**	mg/L	0.10	0.011	1	10/09/23 20:41	10/17/23 14:16	7440-42-8	
Calcium	**61.7**	mg/L	1.0	0.057	1	10/09/23 20:41	10/17/23 14:16	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/09/23 20:41	10/17/23 14:16	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	ND	mg/L	0.0010	0.000080	1	10/10/23 15:21	10/16/23 08:15	7440-36-0	
Arsenic	**0.0012**	mg/L	0.0010	0.00012	1	10/10/23 15:21	10/16/23 08:15	7440-38-2	
Barium	**0.022**	mg/L	0.0010	0.000065	1	10/10/23 15:21	10/16/23 08:15	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/10/23 15:21	10/16/23 08:15	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/10/23 15:21	10/16/23 08:15	7440-43-9	
Chromium	**0.00078J**	mg/L	0.0020	0.00018	1	10/10/23 15:21	10/16/23 08:15	7440-47-3	
Cobalt	**0.00012J**	mg/L	0.0010	0.000071	1	10/10/23 15:21	10/16/23 08:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	10/10/23 15:21	10/16/23 08:15	7439-92-1	
Molybdenum	**0.0036**	mg/L	0.0010	0.000074	1	10/10/23 15:21	10/16/23 08:15	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/10/23 15:21	10/16/23 08:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/10/23 15:21	10/16/23 08:15	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	ug/L	0.20	0.12	1	10/09/23 18:26	10/11/23 10:34	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	**253**	mg/L	10.0	10.0	1		10/11/23 15:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		10/17/23 17:08		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-42B-100423 **Lab ID: 50355500003** Collected: 10/04/23 13:55 Received: 10/05/23 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	**15.8**	mg/L	0.25	0.067	1		10/16/23 18:56	16887-00-6	
Fluoride	**0.11**	mg/L	0.050	0.017	1		10/16/23 18:56	16984-48-8	
Sulfate	**24.1**	mg/L	0.25	0.19	1		10/16/23 18:56	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	**0.035J**	mg/L	0.10	0.011	1	10/09/23 20:41	10/17/23 14:22	7440-42-8	
Calcium	**68.4**	mg/L	1.0	0.057	1	10/09/23 20:41	10/17/23 14:22	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/09/23 20:41	10/17/23 14:22	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	ND	mg/L	0.0010	0.000080	1	10/10/23 15:21	10/16/23 08:18	7440-36-0	
Arsenic	**0.00024J**	mg/L	0.0010	0.00012	1	10/10/23 15:21	10/16/23 08:18	7440-38-2	
Barium	**0.021**	mg/L	0.0010	0.000065	1	10/10/23 15:21	10/16/23 08:18	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/10/23 15:21	10/16/23 08:18	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/10/23 15:21	10/16/23 08:18	7440-43-9	
Chromium	**0.00046J**	mg/L	0.0020	0.00018	1	10/10/23 15:21	10/16/23 08:18	7440-47-3	
Cobalt	**0.00015J**	mg/L	0.0010	0.000071	1	10/10/23 15:21	10/16/23 08:18	7440-48-4	
Lead	**0.00012J**	mg/L	0.0010	0.000068	1	10/10/23 15:21	10/16/23 08:18	7439-92-1	
Molybdenum	**0.0023**	mg/L	0.0010	0.000074	1	10/10/23 15:21	10/16/23 08:18	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/10/23 15:21	10/16/23 08:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/10/23 15:21	10/16/23 08:18	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	ug/L	0.20	0.12	1	10/09/23 18:26	10/11/23 10:36	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	**246**	mg/L	10.0	10.0	1		10/11/23 15:42		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.9**	Std. Units	0.10	0.10	1		10/19/23 09:46		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-42C-100923 **Lab ID: 50355927001** Collected: 10/09/23 11:55 Received: 10/10/23 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	**11.9**	mg/L	0.25	0.067	1		10/18/23 18:02	16887-00-6	
Fluoride	**0.18**	mg/L	0.050	0.017	1		10/18/23 18:02	16984-48-8	
Sulfate	**4.5**	mg/L	0.25	0.19	1		10/18/23 18:02	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	**0.93**	mg/L	0.10	0.011	1	10/12/23 08:30	10/20/23 15:29	7440-42-8	
Calcium	**57.5**	mg/L	1.0	0.057	1	10/12/23 08:30	10/20/23 15:29	7440-70-2	
Lithium	**0.042**	mg/L	0.020	0.0051	1	10/12/23 08:30	10/20/23 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	ND	mg/L	0.0010	0.000080	1	10/12/23 16:56	10/13/23 08:06	7440-36-0	
Arsenic	**0.00024J**	mg/L	0.0010	0.00012	1	10/12/23 16:56	10/13/23 08:06	7440-38-2	
Barium	**0.0094**	mg/L	0.0010	0.000065	1	10/12/23 16:56	10/13/23 08:06	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/12/23 16:56	10/13/23 08:06	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/12/23 16:56	10/13/23 08:06	7440-43-9	
Chromium	**0.00092J**	mg/L	0.0020	0.00018	1	10/12/23 16:56	10/13/23 08:06	7440-47-3	
Cobalt	**0.00022J**	mg/L	0.0010	0.000071	1	10/12/23 16:56	10/13/23 08:06	7440-48-4	
Lead	**0.00019J**	mg/L	0.0010	0.000068	1	10/12/23 16:56	10/13/23 08:06	7439-92-1	
Molybdenum	**0.0024**	mg/L	0.0010	0.000074	1	10/12/23 16:56	10/13/23 08:06	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/12/23 16:56	10/13/23 08:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/12/23 16:56	10/13/23 08:06	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	ug/L	0.20	0.12	1	10/16/23 19:14	10/17/23 10:27	7439-97-6	2d
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	**273**	mg/L	10.0	10.0	1		10/12/23 13:33		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.9**	Std. Units	0.10	0.10	1		10/20/23 16:40		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-43-100923 **Lab ID: 50355927002** Collected: 10/09/23 13:10 Received: 10/10/23 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	**0.62**	mg/L	0.25	0.067	1		10/18/23 20:17	16887-00-6	
Fluoride	**0.12**	mg/L	0.050	0.017	1		10/18/23 20:17	16984-48-8	
Sulfate	**19.6**	mg/L	0.25	0.19	1		10/18/23 20:17	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	**0.015J**	mg/L	0.10	0.011	1	10/12/23 08:30	10/20/23 15:35	7440-42-8	
Calcium	**32.3**	mg/L	1.0	0.057	1	10/12/23 08:30	10/20/23 15:35	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/12/23 08:30	10/20/23 15:35	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	**0.00013J**	mg/L	0.0010	0.000080	1	10/12/23 16:56	10/13/23 08:09	7440-36-0	
Arsenic	**0.0025**	mg/L	0.0010	0.00012	1	10/12/23 16:56	10/13/23 08:09	7440-38-2	
Barium	**0.019**	mg/L	0.0010	0.000065	1	10/12/23 16:56	10/13/23 08:09	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/12/23 16:56	10/13/23 08:09	7440-41-7	
Cadmium	**0.000022J**	mg/L	0.00020	0.000016	1	10/12/23 16:56	10/13/23 08:09	7440-43-9	
Chromium	**0.00054J**	mg/L	0.0020	0.00018	1	10/12/23 16:56	10/13/23 08:09	7440-47-3	
Cobalt	**0.0014**	mg/L	0.0010	0.000071	1	10/12/23 16:56	10/13/23 08:09	7440-48-4	
Lead	**0.00012J**	mg/L	0.0010	0.000068	1	10/12/23 16:56	10/13/23 08:09	7439-92-1	
Molybdenum	**0.0054**	mg/L	0.0010	0.000074	1	10/12/23 16:56	10/13/23 08:09	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/12/23 16:56	10/13/23 08:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/12/23 16:56	10/13/23 08:09	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	ug/L	0.20	0.12	1	10/16/23 19:14	10/17/23 10:30	7439-97-6	2d
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	**132**	mg/L	10.0	10.0	1		10/12/23 13:33		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.9**	Std. Units	0.10	0.10	1		10/20/23 16:41		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-43B-100923 **Lab ID: 50355927003** Collected: 10/09/23 14:05 Received: 10/10/23 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		10/18/23 21:08	16887-00-6	
Fluoride	**0.16**	mg/L	0.050	0.017	1		10/18/23 21:08	16984-48-8	
Sulfate	**16.8**	mg/L	0.25	0.19	1		10/18/23 21:08	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	**0.028J**	mg/L	0.10	0.011	1	10/12/23 08:30	10/20/23 15:36	7440-42-8	
Calcium	**38.5**	mg/L	1.0	0.057	1	10/12/23 08:30	10/20/23 15:36	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/12/23 08:30	10/20/23 15:36	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	ND	mg/L	0.0010	0.000080	1	10/12/23 16:56	10/13/23 08:13	7440-36-0	
Arsenic	**0.00046J**	mg/L	0.0010	0.00012	1	10/12/23 16:56	10/13/23 08:13	7440-38-2	
Barium	**0.011**	mg/L	0.0010	0.000065	1	10/12/23 16:56	10/13/23 08:13	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/12/23 16:56	10/13/23 08:13	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/12/23 16:56	10/13/23 08:13	7440-43-9	
Chromium	**0.00053J**	mg/L	0.0020	0.00018	1	10/12/23 16:56	10/13/23 08:13	7440-47-3	
Cobalt	**0.00013J**	mg/L	0.0010	0.000071	1	10/12/23 16:56	10/13/23 08:13	7440-48-4	
Lead	**0.00010J**	mg/L	0.0010	0.000068	1	10/12/23 16:56	10/13/23 08:13	7439-92-1	
Molybdenum	**0.0025**	mg/L	0.0010	0.000074	1	10/12/23 16:56	10/13/23 08:13	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/12/23 16:56	10/13/23 08:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/12/23 16:56	10/13/23 08:13	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	ug/L	0.20	0.12	1	10/16/23 19:14	10/17/23 10:32	7439-97-6	2d
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	**135**	mg/L	10.0	10.0	1		10/12/23 13:33		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.8**	Std. Units	0.10	0.10	1		10/20/23 16:42		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: FD-07-100923 **Lab ID: 50355927004** Collected: 10/09/23 12:00 Received: 10/10/23 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		10/18/23 22:32	16887-00-6	
Fluoride	**0.16**	mg/L	0.050	0.017	1		10/18/23 22:32	16984-48-8	
Sulfate	**16.8**	mg/L	0.25	0.19	1		10/18/23 22:32	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	**0.028J**	mg/L	0.10	0.011	1	10/12/23 08:30	10/20/23 15:38	7440-42-8	
Calcium	**38.0**	mg/L	1.0	0.057	1	10/12/23 08:30	10/20/23 15:38	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/12/23 08:30	10/20/23 15:38	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	10/12/23 16:56	10/13/23 08:27	7440-36-0	
Arsenic	**0.00047J**	mg/L	0.0010	0.00012	1	10/12/23 16:56	10/13/23 08:27	7440-38-2	
Barium	**0.011**	mg/L	0.0010	0.000065	1	10/12/23 16:56	10/13/23 08:27	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/12/23 16:56	10/13/23 08:27	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/12/23 16:56	10/13/23 08:27	7440-43-9	
Chromium	**0.00061J**	mg/L	0.0020	0.00018	1	10/12/23 16:56	10/13/23 08:27	7440-47-3	
Cobalt	**0.00013J**	mg/L	0.0010	0.000071	1	10/12/23 16:56	10/13/23 08:27	7440-48-4	
Lead	**0.000096J**	mg/L	0.0010	0.000068	1	10/12/23 16:56	10/13/23 08:27	7439-92-1	
Molybdenum	**0.0025**	mg/L	0.0010	0.000074	1	10/12/23 16:56	10/13/23 08:27	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/12/23 16:56	10/13/23 08:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/12/23 16:56	10/13/23 08:27	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	ug/L	0.20	0.12	1	10/16/23 19:14	10/17/23 10:35	7439-97-6	2d
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		10/12/23 13:33		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.7**	Std. Units	0.10	0.10	1		10/20/23 16:42		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-44-101023 **Lab ID: 50356097001** Collected: 10/10/23 10:45 Received: 10/11/23 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	**1.4**	mg/L	0.25	0.067	1		10/20/23 11:41	16887-00-6	
Fluoride	**0.12**	mg/L	0.050	0.017	1		10/20/23 11:41	16984-48-8	
Sulfate	**45.3**	mg/L	2.5	1.9	10		10/20/23 11:58	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	**0.042J**	mg/L	0.10	0.011	1	10/12/23 08:30	10/20/23 15:44	7440-42-8	
Calcium	**25.2**	mg/L	1.0	0.057	1	10/12/23 08:30	10/20/23 15:44	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/12/23 08:30	10/20/23 15:44	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	0.000080	1	10/12/23 16:56	10/13/23 08:30	7440-36-0	
Arsenic	**0.063**	mg/L	0.0010	0.00012	1	10/12/23 16:56	10/13/23 08:30	7440-38-2	
Barium	**0.022**	mg/L	0.0010	0.000065	1	10/12/23 16:56	10/13/23 08:30	7440-39-3	
Beryllium	**0.000067J**	mg/L	0.00020	0.000026	1	10/12/23 16:56	10/13/23 08:30	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/12/23 16:56	10/13/23 08:30	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0020	0.00018	1	10/12/23 16:56	10/13/23 08:30	7440-47-3	
Cobalt	**0.0011**	mg/L	0.0010	0.000071	1	10/12/23 16:56	10/13/23 08:30	7440-48-4	
Lead	**0.000099J**	mg/L	0.0010	0.000068	1	10/12/23 16:56	10/13/23 08:30	7439-92-1	
Molybdenum	**0.0093**	mg/L	0.0010	0.000074	1	10/12/23 16:56	10/13/23 08:30	7439-98-7	
Selenium	**0.00021J**	mg/L	0.0010	0.00019	1	10/12/23 16:56	10/13/23 08:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/12/23 16:56	10/13/23 08:30	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	ug/L	0.20	0.091	1	10/16/23 12:01	10/16/23 18:26	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	**132**	mg/L	10.0	10.0	1		10/16/23 12:04		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		10/24/23 11:57		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-44B-101023 **Lab ID: 50356097002** Collected: 10/10/23 11:45 Received: 10/11/23 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	**1.6**	mg/L	0.25	0.067	1		10/19/23 14:36	16887-00-6	
Fluoride	**0.094J**	mg/L	0.050	0.017	1		10/19/23 14:36	16984-48-8	
Sulfate	**5.3**	mg/L	0.25	0.19	1		10/19/23 14:36	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	**0.027J**	mg/L	0.10	0.011	1	10/12/23 08:30	10/20/23 15:45	7440-42-8	
Calcium	**32.9**	mg/L	1.0	0.057	1	10/12/23 08:30	10/20/23 15:45	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/12/23 08:30	10/20/23 15:45	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	ND	mg/L	0.0010	0.000080	1	10/12/23 16:56	10/13/23 08:33	7440-36-0	
Arsenic	**0.00021J**	mg/L	0.0010	0.00012	1	10/12/23 16:56	10/13/23 08:33	7440-38-2	
Barium	**0.0088**	mg/L	0.0010	0.000065	1	10/12/23 16:56	10/13/23 08:33	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/12/23 16:56	10/13/23 08:33	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/12/23 16:56	10/13/23 08:33	7440-43-9	
Chromium	**0.00047J**	mg/L	0.0020	0.00018	1	10/12/23 16:56	10/13/23 08:33	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000071	1	10/12/23 16:56	10/13/23 08:33	7440-48-4	
Lead	**0.00014J**	mg/L	0.0010	0.000068	1	10/12/23 16:56	10/13/23 08:33	7439-92-1	
Molybdenum	**0.0018**	mg/L	0.0010	0.000074	1	10/12/23 16:56	10/13/23 08:33	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/12/23 16:56	10/13/23 08:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/12/23 16:56	10/13/23 08:33	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	ug/L	0.20	0.091	1	10/16/23 12:01	10/16/23 18:28	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	**111**	mg/L	10.0	10.0	1		10/16/23 12:04		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.4**	Std. Units	0.10	0.10	1		10/24/23 11:57		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-57-101023 **Lab ID: 50356097003** Collected: 10/10/23 13:10 Received: 10/11/23 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	**0.89**	mg/L	0.25	0.067	1		10/19/23 15:09	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		10/19/23 15:09	16984-48-8	
Sulfate	**26.6**	mg/L	0.25	0.19	1		10/19/23 15:09	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	**0.033J**	mg/L	0.10	0.011	1	10/12/23 08:30	10/20/23 15:47	7440-42-8	
Calcium	**22.7**	mg/L	1.0	0.057	1	10/12/23 08:30	10/20/23 15:47	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/12/23 08:30	10/20/23 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	ND	mg/L	0.0010	0.000080	1	10/12/23 16:56	10/13/23 08:37	7440-36-0	
Arsenic	**0.00022J**	mg/L	0.0010	0.00012	1	10/12/23 16:56	10/13/23 08:37	7440-38-2	
Barium	**0.0056**	mg/L	0.0010	0.000065	1	10/12/23 16:56	10/13/23 08:37	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/12/23 16:56	10/13/23 08:37	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/12/23 16:56	10/13/23 08:37	7440-43-9	
Chromium	**0.00090J**	mg/L	0.0020	0.00018	1	10/12/23 16:56	10/13/23 08:37	7440-47-3	
Cobalt	**0.000097J**	mg/L	0.0010	0.000071	1	10/12/23 16:56	10/13/23 08:37	7440-48-4	
Lead	**0.00016J**	mg/L	0.0010	0.000068	1	10/12/23 16:56	10/13/23 08:37	7439-92-1	
Molybdenum	**0.00060J**	mg/L	0.0010	0.000074	1	10/12/23 16:56	10/13/23 08:37	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/12/23 16:56	10/13/23 08:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/12/23 16:56	10/13/23 08:37	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	ug/L	0.20	0.091	1	10/16/23 12:01	10/16/23 18:31	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	**90**	mg/L	10.0	10.0	1		10/16/23 12:05		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.5**	Std. Units	0.10	0.10	1		10/24/23 11:58		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: FB-07-101023 **Lab ID: 50356097004** Collected: 10/10/23 14:00 Received: 10/11/23 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	ND	mg/L	0.25	0.067	1		10/20/23 12:15	16887-00-6	
Fluoride	ND	mg/L	0.050	0.017	1		10/20/23 12:15	16984-48-8	
Sulfate	ND	mg/L	0.25	0.19	1		10/20/23 12:15	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	10/12/23 08:30	10/20/23 15:59	7440-42-8	
Calcium	ND	mg/L	1.0	0.057	1	10/12/23 08:30	10/20/23 15:59	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/12/23 08:30	10/20/23 15:59	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	ND	mg/L	0.0010	0.000080	1	10/12/23 16:56	10/13/23 09:04	7440-36-0	
Arsenic	ND	mg/L	0.0010	0.00012	1	10/12/23 16:56	10/13/23 09:04	7440-38-2	
Barium	**0.00038J**	mg/L	0.0010	0.000065	1	10/12/23 16:56	10/13/23 09:04	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/12/23 16:56	10/13/23 09:04	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000016	1	10/12/23 16:56	10/13/23 09:04	7440-43-9	
Chromium	**0.00022J**	mg/L	0.0020	0.00018	1	10/12/23 16:56	10/13/23 09:04	7440-47-3	
Cobalt	ND	mg/L	0.0010	0.000071	1	10/12/23 16:56	10/13/23 09:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.000068	1	10/12/23 16:56	10/13/23 09:04	7439-92-1	
Molybdenum	ND	mg/L	0.0010	0.000074	1	10/12/23 16:56	10/13/23 09:04	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00019	1	10/12/23 16:56	10/13/23 09:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000060	1	10/12/23 16:56	10/13/23 09:04	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	ug/L	0.20	0.091	1	10/16/23 12:01	10/16/23 18:43	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		10/16/23 12:05		PL
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**8.1**	Std. Units	0.10	0.10	1		10/24/23 12:00		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-57B-101123 **Lab ID: 50356256001** Collected: 10/11/23 10:05 Received: 10/12/23 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	**14.5**	mg/L	0.25	0.067	1		10/21/23 05:25	16887-00-6	
Fluoride	**0.11**	mg/L	0.050	0.017	1		10/21/23 05:25	16984-48-8	
Sulfate	**12.1**	mg/L	0.25	0.19	1		10/21/23 05:25	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	**0.079J**	mg/L	0.10	0.011	1	10/18/23 16:09	10/25/23 13:36	7440-42-8	
Calcium	**47.3**	mg/L	1.0	0.057	1	10/18/23 16:09	10/25/23 13:36	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/18/23 16:09	10/25/23 13:36	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	ND	mg/L	0.0010	0.00013	1	10/17/23 07:22	10/25/23 19:09	7440-36-0	
Arsenic	**0.00073J**	mg/L	0.0010	0.00010	1	10/17/23 07:22	10/25/23 19:09	7440-38-2	
Barium	**0.021**	mg/L	0.0010	0.00014	1	10/17/23 07:22	10/25/23 19:09	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/17/23 07:22	10/25/23 19:09	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	10/17/23 07:22	10/25/23 19:09	7440-43-9	
Chromium	**0.00044J**	mg/L	0.0020	0.00020	1	10/17/23 07:22	10/25/23 19:09	7440-47-3	
Cobalt	**0.00010J**	mg/L	0.0010	0.000082	1	10/17/23 07:22	10/25/23 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	10/17/23 07:22	10/25/23 19:09	7439-92-1	
Molybdenum	**0.0039**	mg/L	0.0010	0.000072	1	10/17/23 07:22	10/25/23 19:09	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00044	1	10/17/23 07:22	10/25/23 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	10/17/23 07:22	10/25/23 19:09	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	ug/L	0.20	0.091	1	10/16/23 12:01	10/16/23 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	**172**	mg/L	10.0	10.0	1		10/17/23 11:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.6**	Std. Units	0.10	0.10	1		10/24/23 16:39		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-58-101123 **Lab ID: 50356256002** Collected: 10/11/23 11:30 Received: 10/12/23 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	**0.91**	mg/L	0.25	0.067	1		10/21/23 06:16	16887-00-6	
Fluoride	**0.41**	mg/L	0.050	0.017	1		10/21/23 06:16	16984-48-8	
Sulfate	**41.1**	mg/L	0.25	0.19	1		10/21/23 06:16	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	**0.039J**	mg/L	0.10	0.011	1	10/18/23 16:09	10/25/23 13:37	7440-42-8	
Calcium	**11.9**	mg/L	1.0	0.057	1	10/18/23 16:09	10/25/23 13:37	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/18/23 16:09	10/25/23 13:37	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	ND	mg/L	0.0010	0.00013	1	10/17/23 07:22	10/25/23 19:13	7440-36-0	
Arsenic	**0.0056**	mg/L	0.0010	0.00010	1	10/17/23 07:22	10/25/23 19:13	7440-38-2	
Barium	**0.035**	mg/L	0.0010	0.00014	1	10/17/23 07:22	10/25/23 19:13	7440-39-3	
Beryllium	**0.00063**	mg/L	0.00020	0.000026	1	10/17/23 07:22	10/25/23 19:13	7440-41-7	
Cadmium	**0.000082J**	mg/L	0.00020	0.000054	1	10/17/23 07:22	10/25/23 19:13	7440-43-9	
Chromium	**0.00089J**	mg/L	0.0020	0.00020	1	10/17/23 07:22	10/25/23 19:13	7440-47-3	
Cobalt	**0.012**	mg/L	0.0010	0.000082	1	10/17/23 07:22	10/25/23 19:13	7440-48-4	
Lead	**0.00031J**	mg/L	0.0010	0.000080	1	10/17/23 07:22	10/25/23 19:13	7439-92-1	
Molybdenum	**0.00070J**	mg/L	0.0010	0.000072	1	10/17/23 07:22	10/25/23 19:13	7439-98-7	
Selenium	**0.0023**	mg/L	0.0010	0.00044	1	10/17/23 07:22	10/25/23 19:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	10/17/23 07:22	10/25/23 19:13	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	ug/L	0.20	0.091	1	10/16/23 12:01	10/16/23 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	**79**	mg/L	10.0	10.0	1		10/17/23 11:58		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.3**	Std. Units	0.10	0.10	1		10/24/23 16:40		H3

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ANALYTICAL RESULTS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Sample: GAMW-58B-101123 **Lab ID: 50356256003** Collected: 10/11/23 12:30 Received: 10/12/23 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	**3.9**	mg/L	0.25	0.067	1		10/21/23 07:06	16887-00-6	
Fluoride	**0.13**	mg/L	0.050	0.017	1		10/21/23 07:06	16984-48-8	
Sulfate	**20.8**	mg/L	0.25	0.19	1		10/21/23 07:06	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	**0.042J**	mg/L	0.10	0.011	1	10/18/23 16:09	10/25/23 13:39	7440-42-8	
Calcium	**40.5**	mg/L	1.0	0.057	1	10/18/23 16:09	10/25/23 13:39	7440-70-2	
Lithium	ND	mg/L	0.020	0.0051	1	10/18/23 16:09	10/25/23 13:39	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	10/17/23 07:22	10/25/23 19:33	7440-36-0	
Arsenic	**0.00069J**	mg/L	0.0010	0.00010	1	10/17/23 07:22	10/25/23 19:33	7440-38-2	
Barium	**0.016**	mg/L	0.0010	0.00014	1	10/17/23 07:22	10/25/23 19:33	7440-39-3	
Beryllium	ND	mg/L	0.00020	0.000026	1	10/17/23 07:22	10/25/23 19:33	7440-41-7	
Cadmium	ND	mg/L	0.00020	0.000054	1	10/17/23 07:22	10/25/23 19:33	7440-43-9	
Chromium	**0.00061J**	mg/L	0.0020	0.00020	1	10/17/23 07:22	10/25/23 19:33	7440-47-3	
Cobalt	**0.00021J**	mg/L	0.0010	0.000082	1	10/17/23 07:22	10/25/23 19:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.000080	1	10/17/23 07:22	10/25/23 19:33	7439-92-1	
Molybdenum	**0.0030**	mg/L	0.0010	0.000072	1	10/17/23 07:22	10/25/23 19:33	7439-98-7	
Selenium	ND	mg/L	0.0010	0.00044	1	10/17/23 07:22	10/25/23 19:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000072	1	10/17/23 07:22	10/25/23 19:33	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	ug/L	0.20	0.091	1	10/16/23 12:01	10/16/23 19:10	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	**129**	mg/L	10.0	10.0	1		10/18/23 11:36		
4500H+ pH, Electrometric	Analytical Method: SM 4500-H+B Pace Analytical Services - Indianapolis								
pH at 25 Degrees C	**7.5**	Std. Units	0.10	0.10	1		10/24/23 16:42		H3

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

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

Associated Lab Samples: 50355350001

METHOD BLANK: 3470086 Matrix: Water
Associated Lab Samples: 50355350001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/13/23 10:57	
Fluoride	mg/L	ND	0.050	0.017	10/13/23 10:57	
Sulfate	mg/L	ND	0.25	0.19	10/13/23 10:57	

LABORATORY CONTROL SAMPLE: 3470087

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3470088 3470089

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

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757364
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355500001, 50355500002, 50355500003

METHOD BLANK: 3471381 Matrix: Water
Associated Lab Samples: 50355500001, 50355500002, 50355500003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/16/23 16:07	
Fluoride	mg/L	ND	0.050	0.017	10/16/23 16:07	
Sulfate	mg/L	ND	0.25	0.19	10/16/23 16:07	

LABORATORY CONTROL SAMPLE: 3471382

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	0.94	94	80-120	
Sulfate	mg/L	5	4.6	93	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471388 3471389

Parameter	Units	50356320001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	48.2	25	25	69.3	69.1	84	84	80-120	0	15	
Fluoride	mg/L	ND	1	1	0.99	0.99	94	94	80-120	0	15	
Sulfate	mg/L	78.4	50	50	119	119	81	80	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757745
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004, 50356097001, 50356097002, 50356097003, 50356097004

METHOD BLANK: 3472609 Matrix: Water
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004, 50356097001, 50356097002, 50356097003, 50356097004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/19/23 16:51	
Fluoride	mg/L	ND	0.050	0.017	10/19/23 16:51	
Sulfate	mg/L	ND	0.25	0.19	10/19/23 16:51	

LABORATORY CONTROL SAMPLE: 3472610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3472611 3472612

Parameter	Units	50356097003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.89	2.5	2.5	3.1	3.1	89	89	80-120	0	15	
Fluoride	mg/L	ND	1	1	0.91	0.91	91	91	80-120	0	15	
Sulfate	mg/L	26.6	5	5	31.0	31.0	87	89	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 758028
QC Batch Method: EPA 9056
Analysis Method: EPA 9056
Analysis Description: 9056 IC Anions
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356256001, 50356256002, 50356256003

METHOD BLANK: 3473743 Matrix: Water
Associated Lab Samples: 50356256001, 50356256002, 50356256003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.067	10/20/23 10:47	
Fluoride	mg/L	ND	0.050	0.017	10/20/23 10:47	
Sulfate	mg/L	ND	0.25	0.19	10/20/23 10:47	

LABORATORY CONTROL SAMPLE: 3473744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	2.5	2.3	93	80-120	
Fluoride	mg/L	1	0.93	93	80-120	
Sulfate	mg/L	5	4.6	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473745 3473746

Parameter	Units	50356191006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	32.0	25	25	55.2	55.2	93	93	80-120	0	15	
Fluoride	mg/L	ND	1	1	0.98	0.98	94	94	80-120	0	15	
Sulfate	mg/L	15.8	5	5	20.1	20.0	86	85	80-120	0	15	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756358
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355350001

METHOD BLANK: 3466519 Matrix: Water
Associated Lab Samples: 50355350001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/11/23 08:42	

LABORATORY CONTROL SAMPLE: 3466520

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466521 3466522

Parameter	Units	50355308002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.6	4.8	93	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756360
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355500001, 50355500002, 50355500003

METHOD BLANK: 3466526 Matrix: Water
Associated Lab Samples: 50355500001, 50355500002, 50355500003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/11/23 09:46	

LABORATORY CONTROL SAMPLE: 3466527

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466528 3466529

Parameter	Units	50355496003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.0020 mg/L	5	5	4.8	4.8	95	96	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756688
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004

METHOD BLANK: 3467807 Matrix: Water
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.12	10/17/23 09:27	

LABORATORY CONTROL SAMPLE: 3467808

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.8	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3467809 3467810

Parameter	Units	50355922016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.5	5.0	90	99	75-125	9	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757427
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356097001, 50356097002, 50356097003, 50356097004, 50356256001, 50356256002, 50356256003

METHOD BLANK: 3471737 Matrix: Water
Associated Lab Samples: 50356097001, 50356097002, 50356097003, 50356097004, 50356256001, 50356256002, 50356256003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	0.091	10/16/23 18:09	

LABORATORY CONTROL SAMPLE: 3471738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471739 3471740

Parameter	Units	50356097003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	5	5	4.6	4.7	93	94	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756292
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355350001, 50355500001, 50355500002, 50355500003

METHOD BLANK: 3466319 Matrix: Water
Associated Lab Samples: 50355350001, 50355500001, 50355500002, 50355500003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	10/17/23 13:46	
Calcium	mg/L	ND	1.0	0.057	10/17/23 13:46	
Lithium	mg/L	ND	0.020	0.0051	10/17/23 13:46	1d

LABORATORY CONTROL SAMPLE: 3466320

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	0.96	96	80-120	
Calcium	mg/L	10	10.6	106	80-120	
Lithium	mg/L	1	1.0	102	80-120	1d

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466321 3466322

Parameter	Units	50355338001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.022J	1	1	1.0	0.99	98	97	75-125	2	20	
Calcium	mg/L	51.2	10	10	63.3	62.3	121	111	75-125	2	20	
Lithium	mg/L	ND	1	1	1.0	1.0	102	100	75-125	2	20	1d

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756857
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004, 50356097001, 50356097002, 50356097003, 50356097004

METHOD BLANK: 3468783 Matrix: Water
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004, 50356097001, 50356097002, 50356097003, 50356097004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	10/20/23 15:20	
Calcium	mg/L	ND	1.0	0.057	10/20/23 15:20	
Lithium	mg/L	ND	0.020	0.0051	10/20/23 15:20	

LABORATORY CONTROL SAMPLE: 3468784

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Boron	mg/L	1	1.0	103	80-120	
Calcium	mg/L	10	10.4	104	80-120	
Lithium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3468785 3468786

Parameter	Units	50356097003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.033J	1	1	1.1	1.0	104	101	75-125	2	20	
Calcium	mg/L	22.7	10	10	32.2	31.6	95	89	75-125	2	20	
Lithium	mg/L	ND	1	1	1.0	1.0	103	101	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757919
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356256001, 50356256002, 50356256003

METHOD BLANK: 3473335 Matrix: Water
Associated Lab Samples: 50356256001, 50356256002, 50356256003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron	mg/L	ND	0.10	0.011	10/25/23 13:20	
Calcium	mg/L	ND	1.0	0.057	10/25/23 13:20	
Lithium	mg/L	ND	0.020	0.0051	10/25/23 13:20	

LABORATORY CONTROL SAMPLE: 3473336

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	0.98	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3473337 3473338

Parameter	Units	50356232001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.080J	1	1	1.1	1.0	100	95	75-125	5	20	
Calcium	mg/L	47.9	10	10	58.6	55.5	107	75	75-125	6	20	
Lithium	mg/L	ND	1	1	1.0	0.96	102	96	75-125	6	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 755756
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355350001

METHOD BLANK: 3463489 Matrix: Water
Associated Lab Samples: 50355350001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000044	10/06/23 04:19	
Arsenic	mg/L	ND	0.0010	0.000064	10/06/23 04:19	
Barium	mg/L	ND	0.0010	0.000067	10/06/23 04:19	
Beryllium	mg/L	ND	0.00020	0.000026	10/06/23 04:19	
Cadmium	mg/L	ND	0.00020	0.000016	10/06/23 04:19	
Chromium	mg/L	ND	0.0020	0.00015	10/06/23 04:19	
Cobalt	mg/L	ND	0.0010	0.000024	10/06/23 04:19	
Lead	mg/L	ND	0.0010	0.000019	10/06/23 04:19	
Molybdenum	mg/L	ND	0.0010	0.000031	10/06/23 04:19	
Selenium	mg/L	ND	0.0010	0.00023	10/06/23 04:19	
Thallium	mg/L	ND	0.0010	0.000042	10/06/23 04:19	

LABORATORY CONTROL SAMPLE: 3463490

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	0.038	95	80-120	
Beryllium	mg/L	0.04	0.041	103	80-120	
Cadmium	mg/L	0.04	0.040	100	80-120	
Chromium	mg/L	0.04	0.041	103	80-120	
Cobalt	mg/L	0.04	0.039	98	80-120	
Lead	mg/L	0.04	0.041	103	80-120	
Molybdenum	mg/L	0.04	0.041	103	80-120	
Selenium	mg/L	0.04	0.038	96	80-120	
Thallium	mg/L	0.04	0.041	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463491 3463492

Parameter	Units	50355347001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00055J	0.04	0.04	0.043	0.044	107	108	75-125	1	20	
Arsenic	mg/L	0.0023	0.04	0.04	0.041	0.043	98	102	75-125	4	20	
Barium	mg/L	0.076	0.04	0.04	0.12	0.12	101	105	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.043	0.044	107	110	75-125	3	20	
Cadmium	mg/L	0.00017J	0.04	0.04	0.041	0.041	102	102	75-125	0	20	
Chromium	mg/L	0.00032J	0.04	0.04	0.041	0.044	103	109	75-125	6	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3463491 3463492

Parameter	Units	50355347001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.0099	0.04	0.04	0.048	0.049	96	97	75-125	1	20	
Lead	mg/L	0.00012J	0.04	0.04	0.042	0.042	104	105	75-125	1	20	
Molybdenum	mg/L	0.0020	0.04	0.04	0.044	0.045	105	107	75-125	2	20	
Selenium	mg/L	0.00060J	0.04	0.04	0.038	0.039	92	97	75-125	5	20	
Thallium	mg/L	0.00012J	0.04	0.04	0.042	0.042	104	106	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756313
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355500001, 50355500002, 50355500003

METHOD BLANK: 3466382 Matrix: Water
Associated Lab Samples: 50355500001, 50355500002, 50355500003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	10/16/23 08:04	
Arsenic	mg/L	ND	0.0010	0.00012	10/16/23 08:04	
Barium	mg/L	ND	0.0010	0.000065	10/16/23 08:04	
Beryllium	mg/L	ND	0.00020	0.000026	10/16/23 08:04	
Cadmium	mg/L	ND	0.00020	0.000016	10/16/23 08:04	
Chromium	mg/L	ND	0.0020	0.00018	10/16/23 08:04	
Cobalt	mg/L	ND	0.0010	0.000071	10/16/23 08:04	
Lead	mg/L	ND	0.0010	0.000068	10/16/23 08:04	
Molybdenum	mg/L	ND	0.0010	0.000074	10/16/23 08:04	
Selenium	mg/L	ND	0.0010	0.00019	10/16/23 08:04	
Thallium	mg/L	ND	0.0010	0.000060	10/16/23 08:04	

LABORATORY CONTROL SAMPLE: 3466383

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	0.037	94	80-120	
Barium	mg/L	0.04	0.038	95	80-120	
Beryllium	mg/L	0.04	0.037	92	80-120	
Cadmium	mg/L	0.04	0.041	101	80-120	
Chromium	mg/L	0.04	0.041	101	80-120	
Cobalt	mg/L	0.04	0.040	99	80-120	
Lead	mg/L	0.04	0.041	103	80-120	
Molybdenum	mg/L	0.04	0.041	102	80-120	
Selenium	mg/L	0.04	0.038	94	80-120	
Thallium	mg/L	0.04	0.041	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466384 3466385

Parameter	Units	50355756001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0011J	0.04	0.04	0.040	0.040	97	97	75-125	0	20	
Arsenic	mg/L	0.0022	0.04	0.04	0.040	0.040	95	94	75-125	1	20	
Barium	mg/L	0.41	0.04	0.04	0.48	0.48	186	173	75-125	1	20	P6
Beryllium	mg/L	ND	0.04	0.04	0.039	0.039	98	99	75-125	0	20	
Cadmium	mg/L	0.000062J	0.04	0.04	0.036	0.035	90	87	75-125	3	20	
Chromium	mg/L	0.00026J	0.04	0.04	0.034	0.034	85	85	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3466384 3466385

Parameter	Units	50355756001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.00071J	0.04	0.04	0.037	0.037	91	90	75-125	1	20	
Lead	mg/L	ND	0.04	0.04	0.037	0.038	93	94	75-125	1	20	
Molybdenum	mg/L	0.50	0.04	0.04	0.53	0.52	83	47	75-125	3	20	P6
Selenium	mg/L	0.0016	0.04	0.04	0.045	0.044	108	107	75-125	1	20	
Thallium	mg/L	ND	0.04	0.04	0.039	0.039	96	97	75-125	1	20	

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756903
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004, 50356097001, 50356097002, 50356097003, 50356097004

METHOD BLANK: 3469006 Matrix: Water
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004, 50356097001, 50356097002, 50356097003, 50356097004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.000080	10/13/23 07:59	
Arsenic	mg/L	ND	0.0010	0.00012	10/13/23 07:59	
Barium	mg/L	ND	0.0010	0.000065	10/13/23 07:59	
Beryllium	mg/L	ND	0.00020	0.000026	10/13/23 07:59	
Cadmium	mg/L	ND	0.00020	0.000016	10/13/23 07:59	
Chromium	mg/L	ND	0.0020	0.00018	10/13/23 07:59	
Cobalt	mg/L	ND	0.0010	0.000071	10/13/23 07:59	
Lead	mg/L	ND	0.0010	0.000068	10/13/23 07:59	
Molybdenum	mg/L	ND	0.0010	0.000074	10/13/23 07:59	
Selenium	mg/L	ND	0.0010	0.00019	10/13/23 07:59	
Thallium	mg/L	ND	0.0010	0.000060	10/13/23 07:59	

LABORATORY CONTROL SAMPLE: 3469007

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.04	0.040	101	80-120	
Arsenic	mg/L	0.04	0.037	92	80-120	
Barium	mg/L	0.04	0.038	96	80-120	
Beryllium	mg/L	0.04	0.038	95	80-120	
Cadmium	mg/L	0.04	0.040	101	80-120	
Chromium	mg/L	0.04	0.040	100	80-120	
Cobalt	mg/L	0.04	0.040	100	80-120	
Lead	mg/L	0.04	0.041	102	80-120	
Molybdenum	mg/L	0.04	0.040	100	80-120	
Selenium	mg/L	0.04	0.039	97	80-120	
Thallium	mg/L	0.04	0.041	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469008 3469009

Parameter	Units	50356097003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.040	0.041	101	103	75-125	2	20	
Arsenic	mg/L	0.00022J	0.04	0.04	0.038	0.038	94	94	75-125	0	20	
Barium	mg/L	0.0056	0.04	0.04	0.044	0.044	97	96	75-125	1	20	
Beryllium	mg/L	ND	0.04	0.04	0.038	0.039	96	98	75-125	2	20	
Cadmium	mg/L	ND	0.04	0.04	0.040	0.041	101	102	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3469008 3469009

Parameter	Units	50356097003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.00090J	0.04	0.04	0.041	0.041	100	101	75-125	1	20	
Cobalt	mg/L	0.000097J	0.04	0.04	0.038	0.039	96	96	75-125	1	20	
Lead	mg/L	0.00016J	0.04	0.04	0.041	0.041	101	102	75-125	1	20	
Molybdenum	mg/L	0.00060J	0.04	0.04	0.041	0.042	100	103	75-125	3	20	
Selenium	mg/L	ND	0.04	0.04	0.038	0.039	95	96	75-125	2	20	
Thallium	mg/L	ND	0.04	0.04	0.040	0.041	100	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757467
QC Batch Method: EPA 200.2
Analysis Method: EPA 6020
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356256001, 50356256002, 50356256003

METHOD BLANK: 3471819 Matrix: Water
Associated Lab Samples: 50356256001, 50356256002, 50356256003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0010	0.00013	10/25/23 18:26	
Arsenic	mg/L	ND	0.0010	0.00010	10/25/23 18:26	
Barium	mg/L	ND	0.0010	0.00014	10/25/23 18:26	
Beryllium	mg/L	ND	0.00020	0.000026	10/25/23 18:26	
Cadmium	mg/L	ND	0.00020	0.000054	10/25/23 18:26	
Chromium	mg/L	ND	0.0020	0.00020	10/25/23 18:26	
Cobalt	mg/L	ND	0.0010	0.000082	10/25/23 18:26	
Lead	mg/L	ND	0.0010	0.000080	10/25/23 18:26	
Molybdenum	mg/L	ND	0.0010	0.000072	10/25/23 18:26	
Selenium	mg/L	ND	0.0010	0.00044	10/25/23 18:26	
Thallium	mg/L	ND	0.0010	0.000072	10/25/23 18:26	

LABORATORY CONTROL SAMPLE: 3471820

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	98	80-120	
Barium	mg/L	0.04	0.039	97	80-120	
Beryllium	mg/L	0.04	0.039	96	80-120	
Cadmium	mg/L	0.04	0.038	94	80-120	
Chromium	mg/L	0.04	0.040	101	80-120	
Cobalt	mg/L	0.04	0.040	101	80-120	
Lead	mg/L	0.04	0.039	97	80-120	
Molybdenum	mg/L	0.04	0.040	100	80-120	
Selenium	mg/L	0.04	0.040	99	80-120	
Thallium	mg/L	0.04	0.040	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471821 3471822

Parameter	Units	50356256002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.04	0.04	0.041	0.040	101	100	75-125	1	20	
Arsenic	mg/L	0.0056	0.04	0.04	0.041	0.042	88	91	75-125	3	20	
Barium	mg/L	0.035	0.04	0.04	0.072	0.073	91	94	75-125	2	20	
Beryllium	mg/L	0.00063	0.04	0.04	0.039	0.039	96	97	75-125	1	20	
Cadmium	mg/L	0.000082J	0.04	0.04	0.037	0.037	91	93	75-125	2	20	
Chromium	mg/L	0.00089J	0.04	0.04	0.040	0.040	98	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3471821 3471822

Parameter	Units	50356256002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cobalt	mg/L	0.012	0.04	0.04	0.051	0.051	97	95	75-125	1	20	
Lead	mg/L	0.00031J	0.04	0.04	0.038	0.039	94	96	75-125	2	20	
Molybdenum	mg/L	0.00070J	0.04	0.04	0.037	0.037	92	91	75-125	1	20	
Selenium	mg/L	0.0023	0.04	0.04	0.038	0.036	88	85	75-125	3	20	
Thallium	mg/L	ND	0.04	0.04	0.038	0.039	96	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756531
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355350001

METHOD BLANK: 3467065 Matrix: Water
Associated Lab Samples: 50355350001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/10/23 15:17	

LABORATORY CONTROL SAMPLE: 3467066

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

SAMPLE DUPLICATE: 3467067

Parameter	Units	50355337001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	10900	10600	2	10	

SAMPLE DUPLICATE: 3467068

Parameter	Units	50355400003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	394	409	4	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756708
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355500001, 50355500002, 50355500003

METHOD BLANK: 3467873 Matrix: Water
Associated Lab Samples: 50355500001, 50355500002, 50355500003

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

LABORATORY CONTROL SAMPLE: 3467874

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

SAMPLE DUPLICATE: 3467875

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

SAMPLE DUPLICATE: 3467876

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

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 756998
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004

METHOD BLANK: 3469339 Matrix: Water
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/12/23 13:32	

LABORATORY CONTROL SAMPLE: 3469340

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

SAMPLE DUPLICATE: 3469341

Parameter	Units	50355871008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	553	561	1	10	

SAMPLE DUPLICATE: 3469342

Parameter	Units	50355933004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	343	350	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757508 | Analysis Method: SM 2540C
QC Batch Method: SM 2540C | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356097001, 50356097002, 50356097003, 50356097004

METHOD BLANK: 3471906 Matrix: Water
Associated Lab Samples: 50356097001, 50356097002, 50356097003, 50356097004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/16/23 12:02	

LABORATORY CONTROL SAMPLE: 3471907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	261	87	80-120	

SAMPLE DUPLICATE: 3471908

Parameter	Units	50356097003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	90	90	0	10	

SAMPLE DUPLICATE: 3471909

Parameter	Units	50356478009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1760	1760	0	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757689
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356256001, 50356256002

METHOD BLANK: 3472396 Matrix: Water
Associated Lab Samples: 50356256001, 50356256002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/17/23 11:58	

LABORATORY CONTROL SAMPLE: 3472397

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

SAMPLE DUPLICATE: 3472398

Parameter	Units	50356322003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	520	507	3	10	

SAMPLE DUPLICATE: 3472399

Parameter	Units	50356314005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	359	385	7	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757912
QC Batch Method: SM 2540C
Analysis Method: SM 2540C
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356256003

METHOD BLANK: 3473315 Matrix: Water
Associated Lab Samples: 50356256003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/18/23 11:36	

LABORATORY CONTROL SAMPLE: 3473316

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

SAMPLE DUPLICATE: 3473317

Parameter	Units	50356256003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	129	135	5	10	

SAMPLE DUPLICATE: 3473318

Parameter	Units	50356278002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	364	357	2	10	

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 757828
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355350001, 50355500001, 50355500002

SAMPLE DUPLICATE: 3472959

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

SAMPLE DUPLICATE: 3472960

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

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 758145
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis

Associated Lab Samples: 50355500003

SAMPLE DUPLICATE: 3474414

Parameter	Units	50355428001 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: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 758356
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50355927001, 50355927002, 50355927003, 50355927004

SAMPLE DUPLICATE: 3475506

Parameter	Units	50355885001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	8.3	8.3	0	2	H3

SAMPLE DUPLICATE: 3475507

Parameter	Units	50356016004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.4	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 758818
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356097001, 50356097002, 50356097003, 50356097004

SAMPLE DUPLICATE: 3477531

Parameter	Units	50355871005 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.0	7.0	1	2	H3

SAMPLE DUPLICATE: 3477532

Parameter	Units	50356097003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.5	7.6	1	2	H3

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QUALITY CONTROL DATA

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

QC Batch: 758916
QC Batch Method: SM 4500-H+B
Analysis Method: SM 4500-H+B
Analysis Description: 4500H+B pH
Laboratory: Pace Analytical Services - Indianapolis
Associated Lab Samples: 50356256001, 50356256002, 50356256003

SAMPLE DUPLICATE: 3477993

Parameter	Units	50356191006 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.3	7.2	1	2	H3

SAMPLE DUPLICATE: 3477994

Parameter	Units	50356305004 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	2	H3

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QUALIFIERS

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

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 (18% recovery). MTM 10/17/23
2d	The opening CRDL recovery exceeded acceptance limits (134.45% recovery).
H3	Sample was received or analysis requested beyond the recognized method holding time.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
PL	The minimum mass of dried residue of 2.5 mg could not be obtained using the routine sample volume of 100 mL.

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355350001	**GAMW-46-100323**	EPA 9056	757163		
50355500001	**GAMW-46B-100423**	EPA 9056	757364		
50355500002	**GAMW-42-100423**	EPA 9056	757364		
50355500003	**GAMW-42B-100423**	EPA 9056	757364		
50355927001	**GAMW-42C-100923**	EPA 9056	757745		
50355927002	**GAMW-43-100923**	EPA 9056	757745		
50355927003	**GAMW-43B-100923**	EPA 9056	757745		
50355927004	**FD-07-100923**	EPA 9056	757745		
50356097001	**GAMW-44-101023**	EPA 9056	757745		
50356097002	**GAMW-44B-101023**	EPA 9056	757745		
50356097003	**GAMW-57-101023**	EPA 9056	757745		
50356097004	**FB-07-101023**	EPA 9056	757745		
50356256001	**GAMW-57B-101123**	EPA 9056	758028		
50356256002	**GAMW-58-101123**	EPA 9056	758028		
50356256003	**GAMW-58B-101123**	EPA 9056	758028		
50355350001	**GAMW-46-100323**	EPA 3010	756292	EPA 6010	757750
50355500001	**GAMW-46B-100423**	EPA 3010	756292	EPA 6010	757750
50355500002	**GAMW-42-100423**	EPA 3010	756292	EPA 6010	757750
50355500003	**GAMW-42B-100423**	EPA 3010	756292	EPA 6010	757750
50355927001	**GAMW-42C-100923**	EPA 3010	756857	EPA 6010	758424
50355927002	**GAMW-43-100923**	EPA 3010	756857	EPA 6010	758424
50355927003	**GAMW-43B-100923**	EPA 3010	756857	EPA 6010	758424
50355927004	**FD-07-100923**	EPA 3010	756857	EPA 6010	758424
50356097001	**GAMW-44-101023**	EPA 3010	756857	EPA 6010	758424
50356097002	**GAMW-44B-101023**	EPA 3010	756857	EPA 6010	758424
50356097003	**GAMW-57-101023**	EPA 3010	756857	EPA 6010	758424
50356097004	**FB-07-101023**	EPA 3010	756857	EPA 6010	758424
50356256001	**GAMW-57B-101123**	EPA 3010	757919	EPA 6010	759058
50356256002	**GAMW-58-101123**	EPA 3010	757919	EPA 6010	759058
50356256003	**GAMW-58B-101123**	EPA 3010	757919	EPA 6010	759058
50355350001	**GAMW-46-100323**	EPA 200.2	755756	EPA 6020	755948
50355500001	**GAMW-46B-100423**	EPA 200.2	756313	EPA 6020	756660
50355500002	**GAMW-42-100423**	EPA 200.2	756313	EPA 6020	756660
50355500003	**GAMW-42B-100423**	EPA 200.2	756313	EPA 6020	756660
50355927001	**GAMW-42C-100923**	EPA 200.2	756903	EPA 6020	757125
50355927002	**GAMW-43-100923**	EPA 200.2	756903	EPA 6020	757125
50355927003	**GAMW-43B-100923**	EPA 200.2	756903	EPA 6020	757125
50355927004	**FD-07-100923**	EPA 200.2	756903	EPA 6020	757125
50356097001	**GAMW-44-101023**	EPA 200.2	756903	EPA 6020	757125
50356097002	**GAMW-44B-101023**	EPA 200.2	756903	EPA 6020	757125
50356097003	**GAMW-57-101023**	EPA 200.2	756903	EPA 6020	757125
50356097004	**FB-07-101023**	EPA 200.2	756903	EPA 6020	757125
50356256001	**GAMW-57B-101123**	EPA 200.2	757467	EPA 6020	757812
50356256002	**GAMW-58-101123**	EPA 200.2	757467	EPA 6020	757812

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356256003	**GAMW-58B-101123**	EPA 200.2	757467	EPA 6020	757812
50355350001	**GAMW-46-100323**	EPA 7470	756358	EPA 7470	756456
50355500001	**GAMW-46B-100423**	EPA 7470	756360	EPA 7470	756457
50355500002	**GAMW-42-100423**	EPA 7470	756360	EPA 7470	756457
50355500003	**GAMW-42B-100423**	EPA 7470	756360	EPA 7470	756457
50355927001	**GAMW-42C-100923**	EPA 7470	756688	EPA 7470	757654
50355927002	**GAMW-43-100923**	EPA 7470	756688	EPA 7470	757654
50355927003	**GAMW-43B-100923**	EPA 7470	756688	EPA 7470	757654
50355927004	**FD-07-100923**	EPA 7470	756688	EPA 7470	757654
50356097001	**GAMW-44-101023**	EPA 7470	757427	EPA 7470	757588
50356097002	**GAMW-44B-101023**	EPA 7470	757427	EPA 7470	757588
50356097003	**GAMW-57-101023**	EPA 7470	757427	EPA 7470	757588
50356097004	**FB-07-101023**	EPA 7470	757427	EPA 7470	757588
50356256001	**GAMW-57B-101123**	EPA 7470	757427	EPA 7470	757588
50356256002	**GAMW-58-101123**	EPA 7470	757427	EPA 7470	757588
50356256003	**GAMW-58B-101123**	EPA 7470	757427	EPA 7470	757588
50355350001	**GAMW-46-100323**	SM 2540C	756531		
50355500001	**GAMW-46B-100423**	SM 2540C	756708		
50355500002	**GAMW-42-100423**	SM 2540C	756708		
50355500003	**GAMW-42B-100423**	SM 2540C	756708		
50355927001	**GAMW-42C-100923**	SM 2540C	756998		
50355927002	**GAMW-43-100923**	SM 2540C	756998		
50355927003	**GAMW-43B-100923**	SM 2540C	756998		
50355927004	**FD-07-100923**	SM 2540C	756998		
50356097001	**GAMW-44-101023**	SM 2540C	757508		
50356097002	**GAMW-44B-101023**	SM 2540C	757508		
50356097003	**GAMW-57-101023**	SM 2540C	757508		
50356097004	**FB-07-101023**	SM 2540C	757508		
50356256001	**GAMW-57B-101123**	SM 2540C	757689		
50356256002	**GAMW-58-101123**	SM 2540C	757689		
50356256003	**GAMW-58B-101123**	SM 2540C	757912		
50355350001	**GAMW-46-100323**	SM 4500-H+B	757828		
50355500001	**GAMW-46B-100423**	SM 4500-H+B	757828		
50355500002	**GAMW-42-100423**	SM 4500-H+B	757828		
50355500003	**GAMW-42B-100423**	SM 4500-H+B	758145		
50355927001	**GAMW-42C-100923**	SM 4500-H+B	758356		
50355927002	**GAMW-43-100923**	SM 4500-H+B	758356		
50355927003	**GAMW-43B-100923**	SM 4500-H+B	758356		
50355927004	**FD-07-100923**	SM 4500-H+B	758356		
50356097001	**GAMW-44-101023**	SM 4500-H+B	758818		
50356097002	**GAMW-44B-101023**	SM 4500-H+B	758818		
50356097003	**GAMW-57-101023**	SM 4500-H+B	758818		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells
Pace Project No.: 50355350

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356097004	**FB-07-101023**	SM 4500-H+B	758818		
50356256001	**GAMW-57B-101123**	SM 4500-H+B	758916		
50356256002	**GAMW-58-101123**	SM 4500-H+B	758916		
50356256003	**GAMW-58B-101123**	SM 4500-H+B	758916		

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CHAIN-OF-CUSTODY / Analy

The Chain-of-Custody is a LEGAL DOCUMENT

WO# : 50355350

50355350

Page: Of

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:	10 Al Paul Lane, Suite 103	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource	
	Merrimack, NH 03054		Sarah Gilles	Address:		Regulatory Agency
Email:	thomas.haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:		
Phone:	(603)668-0880 Fax:	Project Name:	RMSGS Boundary Wells	Pace Project Manager:	tina.sayer@pacelabs.com,	State / Location
Requested Due Date:	10 day TAT	Project #:		Pace Profile #:	9045-1	IN

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
																		Y/N				
1	GAMW-46-100323	WT	G			10/3/23	1325		3	2		1						X	X	X	X	
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	WSP	10/3/23	1630	Fedex						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Fedex	10/4/23	0920		10/4/23	0920	2.3	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:	DATE Signed:	10/3/23				

F-IN-Q-290-rev.23, 26Jun2023

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/04/23 1008 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):** 2.4/2.3 | | | | **(Initial/Corrected)** RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)
5. **Packing Material:** ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____
6. **Ice Type:** ☒ Wet ☐ Blue ☐ None
7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No
   Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		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
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:

COC PAGE 1 **of** 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

50355500

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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 Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177
Address: 10 Al Paul Lane, Suite 103	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource
Merrimack, NH 03054	Sarah Gilles	Address:
Email: thomas.haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:
Phone: (603)668-0880 Fax:	Project Name: RMSGS Boundary Wells	Pace Project Manager: tina.sayer@pacelabs.com,
Requested Due Date: 10 day TAT	Project #: 21404789.011	Pace Profile #: 9045-1

Regulatory Agency:

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	50355500
1	GAMW-46B-100423	WT	G			10/4/23	1045		3	2		1						X	X	X	X			001
2	GAMW-42-100423	WT	G			10/4/23	1220		3	2		1						X	X	X	X			002
3	GAMW-42B-100423	WT	G			10/4/23	1355		3	2		1						X	X	X	X			003
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	[signature] / WSP	10/4/23	1600	FedEx						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	10.5.23	0920	Mark Skinkel / PACE	10.5.23	0920	0.5	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: [signature] DATE Signed: 10/4/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 10.05.2023 1020

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):** 0.6 / 0.5 | | | |

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

5. **Packing Material:** ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		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
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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

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

WO# : 50355927

50355927

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N-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A Required Client Information:		Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	10 Al Paul Lane, Suite 103	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrimack, NH 03054		Sarah Gilles	Address:	
Email:	thomas.haskins@wsp.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)668-0880 Fax:	Project Name:	RMSGS Boundary Wells	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	10 day TAT	Project #:	31404789.011	Pace Profile #:	9045-1

Regulatory Agency	
State / Location	IN

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

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	
1	GAMW-42C-100923	WT	G			10/9/23	1155		3	2		1							X	X	X	X		001
2	GAMW-43-100923	WT	G			10/9/23	1310		3	2		1							X	X	X	X		002
3	GAMW-43B-100923	WT	G			10/9/23	1405		3	2		1							X	X	X	X		003
4	FD-07-100923	WT	G			10/9/23	1200		3	2		1							X	X	X	X		004
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	WSP	10/9/23	1650	Fedex						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	Fedex	10/10/23	0925		10/10/23	0925	1-6	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:		TEMP in C	Received on Ice (Y/N)
SIGNATURE of SAMPLER:	DATE Signed: 10/9/23	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/10/23 1128 CL

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):** 1.6/1.6 | | | |

(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)		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:						
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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic
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

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 Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 10 Al Paul Lane, Suite 103	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource	
Merrimack, NH 03054	Sarah Gilles	Address:	Regulatory Agency
Email: thomas.haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)668-0880 Fax:	Project Name: RMSGS Boundary Wells	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-1	IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)	50356097
1	GAMW-44 - 101023	WT	G			10/10/23	1045		3	2		1						X	X	X	X			001
2	GAMW-44B - 101023	WT	G			10/10/23	1145		3	2		1						X	X	X	X			002
3	GAMW-57 - 101023	WT	G			10/10/23	1310		3	2		1						X	X	X	X			MS-04/MSD-04 003
4	FB-07 - 101023	WT	G			10/10/23	1400		3	2		1						X	X	X	X			004
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**B,Ca,Li by 6010;	WSP	10/10/23	1630	FedEx						
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	10/11/23	920		10/11/23	920	1.2	Y	Y	Y
Hg by 7470										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed: 10/10/23

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

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 10/11/23 1300

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)

1.7/1.7	1.2/1.2		

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)		✓	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:		✓				
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?			✓
				Present	Absent	No VOA Vials Sent
Containers Intact?:	✓		Headspace in VOA Vials (>6mm): See Containter Count form for details			✓
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:

COC PAGE 1 of 1

Sample Container Count

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

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

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DG9U	40mL unpreserved amber vial	AG1H	1L HCl amber glass
VG9H	40mL HCl clear vial	AG1S	1L H2SO4 amber glass
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CG3H	250mL clear glass HCl	AG3SF	250mL H2SO4 amb glass -field filtered
CG3F	250mL clear glass HCl, Field Filter	AG3U	250mL unpres amber glass
BG1H	1L HCl clear glass	AG3B	250mL NaOH amber glass
BG1S	1L H2SO4 clear glass		

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytic

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

WO# : 50356256

50356256

Page Of

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loev	
Address: 10 Al Paul Lane, Suite 103	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource	
Merrimack, NH 03054	Sarah Gilles	Address:	Regulatory Agency
Email: thomas.haskins@wsp.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)668-0880 Fax:	Project Name: RMSGS Boundary Wells	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 10 day TAT	Project #: 31404789.011	Pace Profile #: 9045-1	IN

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): Total metals **	Cl, F, SO4 by 9056	pH	TDS	Residual Chlorine (Y/N)
1	GAMW-57B - 101123	WT	G			10/11/23	1005		3	2		1							X	X	X	X	
2	GAMW-58 - 101123	WT	G			10/11/23	1130		3	2		1							X	X	X	X	
3	GAMW-58B 101123	WT	G			10/11/23	1230		3	2		1							X	X	X	X	
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**B,Ca,Li by 6010;	WSP	10/11/23	1430	FedEx			
Be,Cr,Co,As,Se,Mo,Cd,Sb,Ba,Tl,Pb by 6020	FedEx	10.12.23	0925	Nick Stiles / PACE	10.12.23	0926	1.3 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:	DATE Signed: 10/11/23					

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 10.12.2023 1117

1. **Courier:** [X] FED EX [ ] UPS [ ] CLIENT [ ] PACE [ ] NOW/JETT [ ] OTHER _____

2. **Custody Seal on Cooler/Box Present:** [X] Yes [ ] No

(If yes)Seals Intact: [X] 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 | | | |

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

5. **Packing Material:** [X] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other _____

6. **Ice Type:** [X] 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
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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

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

Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

November 06, 2023

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

RE: Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Dear Mr. Haskins:

Enclosed are the analytical results for sample(s) received by the laboratory between October 04, 2023 and October 12, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Tina Sayer

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

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CERTIFICATIONS

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572023-03
New Hampshire/TNI Certification #: 297622
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad

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SAMPLE SUMMARY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50355352001	**GAMW-46-100323**	Water	10/03/23 13:25	10/04/23 09:20
50355502001	**GAMW-46B-100423**	Water	10/04/23 10:45	10/05/23 09:20
50355502002	**GAMW-42-100423**	Water	10/04/23 12:20	10/05/23 09:20
50355502003	**GAMW-42B-100423**	Water	10/04/23 13:55	10/05/23 09:20
50355929001	**GAMW-42C-100923**	Water	10/09/23 11:55	10/10/23 09:25
50355929002	**GAMW-43-100923**	Water	10/09/23 13:10	10/10/23 09:25
50355929003	**GAMW-43B-100923**	Water	10/09/23 14:05	10/10/23 09:25
50355929004	**FD-07-100923**	Water	10/09/23 12:00	10/10/23 09:25
50356093001	**GAMW-44-101023**	Water	10/10/23 10:45	10/11/23 09:20
50356259002	**GAMW-58-101123**	Water	10/11/23 11:30	10/12/23 09:25
50356259003	**GAMW-58B-101123**	Water	10/11/23 12:30	10/12/23 09:25
50356093002	**GAMW-44B-101023**	Water	10/10/23 11:45	10/11/23 09:20
50356093003	**GAMW-57-101023**	Water	10/10/23 13:10	10/11/23 09:20
50356093004	**GAMW-57-101023 MS**	Water	10/10/23 13:10	10/11/23 09:20
50356093005	**GAMW-57-101023 MSD**	Water	10/10/23 13:10	10/11/23 09:20
50356093006	**FB-07-101023**	Water	10/10/23 14:00	10/11/23 09:20
50356259001	**GAMW-57B-101123**	Water	10/11/23 10:05	10/12/23 09:25

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50355352001	**GAMW-46-100323**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355502001	**GAMW-46B-100423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355502002	**GAMW-42-100423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355502003	**GAMW-42B-100423**	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355929001	**GAMW-42C-100923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355929002	**GAMW-43-100923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355929003	**GAMW-43B-100923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50355929004	**FD-07-100923**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50356093001	**GAMW-44-101023**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50356259002	**GAMW-58-101123**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50356259003	**GAMW-58B-101123**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50356093002	**GAMW-44B-101023**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50356093003	**GAMW-57-101023**	EPA 903.1	LL1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50356093004	**GAMW-57-101023 MS**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50356093005	**GAMW-57-101023 MSD**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
50356093006	**FB-07-101023**	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
50356259001	**GAMW-57B-101123**	EPA 903.1	MAR1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355352001	**GAMW-46-100323**					
EPA 903.1	Radium-226	-0.126 ± 0.523 (1.10) C:NA T:93%	pCi/L		10/19/23 13:47	
EPA 904.0	Radium-228	0.261 ± 0.406 (0.879) C:82% T:86%	pCi/L		10/17/23 12:30	
Total Radium Calculation	Total Radium	0.261 ± 0.929 (1.98)	pCi/L		10/20/23 15:54	
50355502001	**GAMW-46B-100423**					
EPA 903.1	Radium-226	0.285 ± 0.619 (1.14) C:NA T:89%	pCi/L		10/20/23 13:01	
EPA 904.0	Radium-228	0.446 ± 0.407 (0.825) C:72% T:80%	pCi/L		10/19/23 15:34	
Total Radium Calculation	Total Radium	0.731 ± 1.03 (1.97)	pCi/L		10/24/23 08:04	
50355502002	**GAMW-42-100423**					
EPA 903.1	Radium-226	0.157 ± 0.488 (0.946) C:NA T:93%	pCi/L		10/20/23 13:01	
EPA 904.0	Radium-228	0.0829 ± 0.387 (0.884) C:75% T:79%	pCi/L		10/19/23 15:34	
Total Radium Calculation	Total Radium	0.240 ± 0.875 (1.83)	pCi/L		10/24/23 08:04	
50355502003	**GAMW-42B-100423**					
EPA 903.1	Radium-226	0.154 ± 0.567 (1.09) C:NA T:94%	pCi/L		10/20/23 13:01	
EPA 904.0	Radium-228	0.721 ± 0.506 (0.995) C:77% T:82%	pCi/L		10/19/23 15:34	
Total Radium Calculation	Total Radium	0.875 ± 1.07 (2.09)	pCi/L		10/24/23 08:04	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50355929001	**GAMW-42C-100923**					
EPA 903.1	Radium-226	0.735 ± 0.479 (0.649) C:NA T:87%	pCi/L		11/01/23 12:13	
EPA 904.0	Radium-228	0.148 ± 0.274 (0.601) C:83% T:87%	pCi/L		10/24/23 12:27	
Total Radium Calculation	Total Radium	0.883 ± 0.753 (1.25)	pCi/L		11/02/23 11:28	
50355929002	**GAMW-43-100923**					
EPA 903.1	Radium-226	0.0467 ± 0.509 (0.967) C:NA T:82%	pCi/L		11/01/23 12:13	
EPA 904.0	Radium-228	0.389 ± 0.332 (0.666) C:81% T:82%	pCi/L		10/24/23 12:27	
Total Radium Calculation	Total Radium	0.436 ± 0.841 (1.63)	pCi/L		11/02/23 11:28	
50355929003	**GAMW-43B-100923**					
EPA 903.1	Radium-226	0.737 ± 0.386 (0.380) C:NA T:87%	pCi/L		11/01/23 12:25	
EPA 904.0	Radium-228	0.106 ± 0.322 (0.724) C:76% T:87%	pCi/L		10/24/23 12:27	
Total Radium Calculation	Total Radium	0.843 ± 0.708 (1.10)	pCi/L		11/02/23 11:28	
50355929004	**FD-07-100923**					
EPA 903.1	Radium-226	0.000 ± 0.240 (0.519) C:NA T:84%	pCi/L		11/01/23 12:25	
EPA 904.0	Radium-228	0.0736 ± 0.389 (0.880) C:79% T:84%	pCi/L		10/24/23 12:27	
Total Radium Calculation	Total Radium	0.0736 ± 0.629 (1.40)	pCi/L		11/02/23 11:28	

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356093001	**GAMW-44-101023**					
EPA 903.1	Radium-226	0.130 ± 0.255 (0.466) C:NA T:76%	pCi/L		11/01/23 12:01	
EPA 904.0	Radium-228	0.843 ± 0.439 (0.761) C:74% T:76%	pCi/L		10/24/23 12:28	
Total Radium Calculation	Total Radium	0.973 ± 0.694 (1.23)	pCi/L		11/02/23 11:28	
50356259002	**GAMW-58-101123**					
EPA 903.1	Radium-226	0.124 ± 0.315 (0.584) C:NA T:85%	pCi/L		11/06/23 14:20	
EPA 904.0	Radium-228	0.571 ± 0.379 (0.709) C:79% T:85%	pCi/L		10/25/23 14:35	
Total Radium Calculation	Total Radium	0.695 ± 0.694 (1.29)	pCi/L		11/06/23 16:20	
50356259003	**GAMW-58B-101123**					
EPA 903.1	Radium-226	-0.0888 ± 0.369 (0.774) C:NA T:87%	pCi/L		11/06/23 15:35	
EPA 904.0	Radium-228	0.407 ± 0.341 (0.677) C:79% T:87%	pCi/L		10/25/23 14:35	
Total Radium Calculation	Total Radium	0.407 ± 0.710 (1.45)	pCi/L		11/06/23 16:20	
50356093002	**GAMW-44B-101023**					
EPA 903.1	Radium-226	0.0400 ± 0.304 (0.601) C:NA T:87%	pCi/L		11/01/23 12:01	
EPA 904.0	Radium-228	0.455 ± 0.305 (0.568) C:79% T:87%	pCi/L		10/24/23 12:25	
Total Radium Calculation	Total Radium	0.495 ± 0.609 (1.17)	pCi/L		11/02/23 11:28	

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356093003	**GAMW-57-101023**					
EPA 903.1	Radium-226	0.0440 ± 0.201 (0.409) C:NA T:80%	pCi/L		11/01/23 12:01	
EPA 904.0	Radium-228	0.263 ± 0.294 (0.612) C:83% T:80%	pCi/L		10/24/23 12:25	
Total Radium Calculation	Total Radium	0.307 ± 0.495 (1.02)	pCi/L		11/02/23 11:28	
50356093004	**GAMW-57-101023 MS**					
EPA 903.1	Radium-226	110.64 %REC ± NA (NA) C:NA T:NA	pCi/L		11/01/23 12:01	
EPA 904.0	Radium-228	75.20 %REC ± NA (NA) C:NA T:NA	pCi/L		10/24/23 12:25	
50356093005	**GAMW-57-101023 MSD**					
EPA 903.1	Radium-226	94.75 %REC 15.47RPD ± NA (NA) C:NA T:NA	pCi/L		11/01/23 12:01	
EPA 904.0	Radium-228	76.08 %REC 1.16RPD ± NA (NA) C:NA T:NA	pCi/L		10/24/23 12:26	
50356093006	**FB-07-101023**					
EPA 903.1	Radium-226	0.208 ± 0.272 (0.449) C:NA T:84%	pCi/L		11/01/23 12:01	
EPA 904.0	Radium-228	0.351 ± 0.378 (0.791) C:82% T:84%	pCi/L		10/24/23 12:26	
Total Radium Calculation	Total Radium	0.559 ± 0.650 (1.24)	pCi/L		11/02/23 11:28	
50356259001	**GAMW-57B-101123**					
EPA 903.1	Radium-226	0.0468 ± 0.400 (0.780) C:NA T:84%	pCi/L		11/06/23 14:20	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50356259001	**GAMW-57B-101123**					
EPA 904.0	Radium-228	0.643 ± 0.388 (0.710) C:77% T:84%	pCi/L		10/25/23 14:35	
Total Radium Calculation	Total Radium	0.690 ± 0.788 (1.49)	pCi/L		11/06/23 16:20	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Method: **EPA 903.1**
Description: 903.1 Radium 226
Client: NiSource_WSP Golder
Date: November 06, 2023

General Information:
17 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:

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Method: **EPA 904.0**
Description: 904.0 Radium 228
Client: NiSource_WSP Golder
Date: November 06, 2023

General Information:
17 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:

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PROJECT NARRATIVE

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Method: **Total Radium Calculation**
Description: Total Radium 228+226
Client: NiSource_WSP Golder
Date: November 06, 2023

General Information:
15 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: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-46-100323 **Lab ID: 50355352001** Collected: 10/03/23 13:25 Received: 10/04/23 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	**-0.126 ± 0.523 (1.10) C:NA T:93%**	pCi/L	10/19/23 13:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.261 ± 0.406 (0.879) C:82% T:86%**	pCi/L	10/17/23 12:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.261 ± 0.929 (1.98)**	pCi/L	10/20/23 15:54	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-46B-100423 **Lab ID: 50355502001** Collected: 10/04/23 10:45 Received: 10/05/23 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	**0.285 ± 0.619 (1.14) C:NA T:89%**	pCi/L	10/20/23 13:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.446 ± 0.407 (0.825) C:72% T:80%**	pCi/L	10/19/23 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.731 ± 1.03 (1.97)**	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-42-100423 **Lab ID: 50355502002** Collected: 10/04/23 12:20 Received: 10/05/23 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	**0.157 ± 0.488 (0.946) C:NA T:93%**	pCi/L	10/20/23 13:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0829 ± 0.387 (0.884) C:75% T:79%**	pCi/L	10/19/23 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.240 ± 0.875 (1.83)**	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-42B-100423 **Lab ID: 50355502003** Collected: 10/04/23 13:55 Received: 10/05/23 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	**0.154 ± 0.567 (1.09) C:NA T:94%**	pCi/L	10/20/23 13:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.721 ± 0.506 (0.995) C:77% T:82%**	pCi/L	10/19/23 15:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.875 ± 1.07 (2.09)**	pCi/L	10/24/23 08:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-42C-100923 **Lab ID: 50355929001** Collected: 10/09/23 11:55 Received: 10/10/23 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	**0.735 ± 0.479 (0.649) C:NA T:87%**	pCi/L	11/01/23 12:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.148 ± 0.274 (0.601) C:83% T:87%**	pCi/L	10/24/23 12:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.883 ± 0.753 (1.25)**	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-43-100923 **Lab ID: 50355929002** Collected: 10/09/23 13:10 Received: 10/10/23 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	**0.0467 ± 0.509 (0.967) C:NA T:82%**	pCi/L	11/01/23 12:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.389 ± 0.332 (0.666) C:81% T:82%**	pCi/L	10/24/23 12:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.436 ± 0.841 (1.63)**	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-43B-100923 **Lab ID: 50355929003** Collected: 10/09/23 14:05 Received: 10/10/23 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	**0.737 ± 0.386 (0.380) C:NA T:87%**	pCi/L	11/01/23 12:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.106 ± 0.322 (0.724) C:76% T:87%**	pCi/L	10/24/23 12:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.843 ± 0.708 (1.10)**	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: FD-07-100923 **Lab ID: 50355929004** Collected: 10/09/23 12:00 Received: 10/10/23 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 ± 0.240 (0.519) C:NA T:84%**	pCi/L	11/01/23 12:25	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0736 ± 0.389 (0.880) C:79% T:84%**	pCi/L	10/24/23 12:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0736 ± 0.629 (1.40)**	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-44-101023 **Lab ID: 50356093001** Collected: 10/10/23 10:45 Received: 10/11/23 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	**0.130 ± 0.255 (0.466) C:NA T:76%**	pCi/L	11/01/23 12:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.843 ± 0.439 (0.761) C:74% T:76%**	pCi/L	10/24/23 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.973 ± 0.694 (1.23)**	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-58-101123 **Lab ID: 50356259002** Collected: 10/11/23 11:30 Received: 10/12/23 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	**0.124 ± 0.315 (0.584) C:NA T:85%**	pCi/L	11/06/23 14:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.571 ± 0.379 (0.709) C:79% T:85%**	pCi/L	10/25/23 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.695 ± 0.694 (1.29)**	pCi/L	11/06/23 16:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-58B-101123 **Lab ID: 50356259003** Collected: 10/11/23 12:30 Received: 10/12/23 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	**-0.0888 ± 0.369 (0.774) C:NA T:87%**	pCi/L	11/06/23 15:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.407 ± 0.341 (0.677) C:79% T:87%**	pCi/L	10/25/23 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.407 ± 0.710 (1.45)**	pCi/L	11/06/23 16:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-44B-101023 **Lab ID: 50356093002** Collected: 10/10/23 11:45 Received: 10/11/23 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	**0.0400 ± 0.304 (0.601) C:NA T:87%**	pCi/L	11/01/23 12:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.455 ± 0.305 (0.568) C:79% T:87%**	pCi/L	10/24/23 12:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.495 ± 0.609 (1.17)**	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-57-101023 **Lab ID: 50356093003** Collected: 10/10/23 13:10 Received: 10/11/23 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	**0.0440 ± 0.201 (0.409) C:NA T:80%**	pCi/L	11/01/23 12:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.263 ± 0.294 (0.612) C:83% T:80%**	pCi/L	10/24/23 12:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.307 ± 0.495 (1.02)**	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-57-101023 MS **Lab ID: 50356093004** Collected: 10/10/23 13:10 Received: 10/11/23 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	**110.64 %REC ± NA (NA) C:NA T:NA**	pCi/L	11/01/23 12:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**75.20 %REC ± NA (NA) C:NA T:NA**	pCi/L	10/24/23 12:25	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-57-101023 MSD **Lab ID: 50356093005** Collected: 10/10/23 13:10 Received: 10/11/23 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	**94.75 %REC 15.47RPD ± NA (NA) C:NA T:NA**	pCi/L	11/01/23 12:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**76.08 %REC 1.16RPD ± NA (NA) C:NA T:NA**	pCi/L	10/24/23 12:26	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: FB-07-101023 **Lab ID: 50356093006** Collected: 10/10/23 14:00 Received: 10/11/23 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	**0.208 ± 0.272 (0.449) C:NA T:84%**	pCi/L	11/01/23 12:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.351 ± 0.378 (0.791) C:82% T:84%**	pCi/L	10/24/23 12:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.559 ± 0.650 (1.24)**	pCi/L	11/02/23 11:28	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Sample: GAMW-57B-101123 **Lab ID: 50356259001** Collected: 10/11/23 10:05 Received: 10/12/23 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	**0.0468 ± 0.400 (0.780) C:NA T:84%**	pCi/L	11/06/23 14:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.643 ± 0.388 (0.710) C:77% T:84%**	pCi/L	10/25/23 14:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.690 ± 0.788 (1.49)**	pCi/L	11/06/23 16:20	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

QC Batch: 621090
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355352001

METHOD BLANK: 3026832 Matrix: Water
Associated Lab Samples: 50355352001

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

QC Batch: 621088
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355352001

METHOD BLANK: 3026829 Matrix: Water
Associated Lab Samples: 50355352001

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

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(317)228-3100

QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

QC Batch: 621091
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355502001, 50355502002, 50355502003

METHOD BLANK: 3026834 Matrix: Water
Associated Lab Samples: 50355502001, 50355502002, 50355502003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.309 (0.692) C:NA T:95%	pCi/L	10/20/23 12:47	

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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Pace Analytical Services, LLC
7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

QC Batch: 622684
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355929001, 50355929002, 50355929003, 50355929004, 50356093001, 50356093002, 50356093003, 50356093004, 50356093005, 50356093006

METHOD BLANK: 3035258 Matrix: Water
Associated Lab Samples: 50355929001, 50355929002, 50355929003, 50355929004, 50356093001, 50356093002, 50356093003, 50356093004, 50356093005, 50356093006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.470 ± 0.337 (0.642) C:73% T:84%	pCi/L	10/24/23 12:21	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

QC Batch: 622866
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50356259001, 50356259002, 50356259003

METHOD BLANK: 3036041 Matrix: Water
Associated Lab Samples: 50356259001, 50356259002, 50356259003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.391 ± 0.328 (0.652) C:83% T:83%	pCi/L	10/25/23 11:31	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

QC Batch: 621095
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355502001, 50355502002, 50355502003

METHOD BLANK: 3026842
Matrix: Water
Associated Lab Samples: 50355502001, 50355502002, 50355502003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.258 ± 0.339 (0.721) C:77% T:87%	pCi/L	10/19/23 15:39	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

QC Batch: 622683
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50355929001, 50355929002, 50355929003, 50355929004, 50356093001, 50356093002, 50356093003, 50356093004, 50356093005, 50356093006

METHOD BLANK: 3035256 Matrix: Water
Associated Lab Samples: 50355929001, 50355929002, 50355929003, 50355929004, 50356093001, 50356093002, 50356093003, 50356093004, 50356093005, 50356093006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.185 (0.376) C:NA T:84%	pCi/L	11/01/23 12:01	

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

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Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL - RADIOCHEMISTRY

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

QC Batch: 622864
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 50356259001, 50356259002, 50356259003

METHOD BLANK: 3036039 Matrix: Water
Associated Lab Samples: 50356259001, 50356259002, 50356259003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0866 ± 0.240 (0.466) C:NA T:83%	pCi/L	11/06/23 14:04	

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

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALIFIERS

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

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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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50355352001	**GAMW-46-100323**	EPA 903.1	621088		
50355502001	**GAMW-46B-100423**	EPA 903.1	621091		
50355502002	**GAMW-42-100423**	EPA 903.1	621091		
50355502003	**GAMW-42B-100423**	EPA 903.1	621091		
50355929001	**GAMW-42C-100923**	EPA 903.1	622683		
50355929002	**GAMW-43-100923**	EPA 903.1	622683		
50355929003	**GAMW-43B-100923**	EPA 903.1	622683		
50355929004	**FD-07-100923**	EPA 903.1	622683		
50356093001	**GAMW-44-101023**	EPA 903.1	622683		
50356093002	**GAMW-44B-101023**	EPA 903.1	622683		
50356093003	**GAMW-57-101023**	EPA 903.1	622683		
50356093004	**GAMW-57-101023 MS**	EPA 903.1	622683		
50356093005	**GAMW-57-101023 MSD**	EPA 903.1	622683		
50356093006	**FB-07-101023**	EPA 903.1	622683		
50356259001	**GAMW-57B-101123**	EPA 903.1	622864		
50356259002	**GAMW-58-101123**	EPA 903.1	622864		
50356259003	**GAMW-58B-101123**	EPA 903.1	622864		
50355352001	**GAMW-46-100323**	EPA 904.0	621090		
50355502001	**GAMW-46B-100423**	EPA 904.0	621095		
50355502002	**GAMW-42-100423**	EPA 904.0	621095		
50355502003	**GAMW-42B-100423**	EPA 904.0	621095		
50355929001	**GAMW-42C-100923**	EPA 904.0	622684		
50355929002	**GAMW-43-100923**	EPA 904.0	622684		
50355929003	**GAMW-43B-100923**	EPA 904.0	622684		
50355929004	**FD-07-100923**	EPA 904.0	622684		
50356093001	**GAMW-44-101023**	EPA 904.0	622684		
50356093002	**GAMW-44B-101023**	EPA 904.0	622684		
50356093003	**GAMW-57-101023**	EPA 904.0	622684		
50356093004	**GAMW-57-101023 MS**	EPA 904.0	622684		
50356093005	**GAMW-57-101023 MSD**	EPA 904.0	622684		
50356093006	**FB-07-101023**	EPA 904.0	622684		
50356259001	**GAMW-57B-101123**	EPA 904.0	622866		
50356259002	**GAMW-58-101123**	EPA 904.0	622866		
50356259003	**GAMW-58B-101123**	EPA 904.0	622866		
50355352001	**GAMW-46-100323**	Total Radium Calculation	623962		
50355502001	**GAMW-46B-100423**	Total Radium Calculation	624308		
50355502002	**GAMW-42-100423**	Total Radium Calculation	624308		
50355502003	**GAMW-42B-100423**	Total Radium Calculation	624308		
50355929001	**GAMW-42C-100923**	Total Radium Calculation	626736		
50355929002	**GAMW-43-100923**	Total Radium Calculation	626736		
50355929003	**GAMW-43B-100923**	Total Radium Calculation	626736		
50355929004	**FD-07-100923**	Total Radium Calculation	626736		
50356093001	**GAMW-44-101023**	Total Radium Calculation	626736		
50356093002	**GAMW-44B-101023**	Total Radium Calculation	626736		

REPORT OF LABORATORY ANALYSIS

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7726 Moller Road
Indianapolis, IN 46268
(317)228-3100

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: RMSGS Boundary Wells
Pace Project No.: 50355352

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50356093003	**GAMW-57-101023**	Total Radium Calculation	626736		
50356093006	**FB-07-101023**	Total Radium Calculation	626736		
50356259001	**GAMW-57B-101123**	Total Radium Calculation	627629		
50356259002	**GAMW-58-101123**	Total Radium Calculation	627629		
50356259003	**GAMW-58B-101123**	Total Radium Calculation	627629		

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WO# : 50355352

50355352

CHAIN-OF-CUSTODY / Ar

The Chain-of-Custody is a LEGAL DOCU

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: Of
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 10 Al Paul Lane, Suite 103	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource	
Merrimack, NH 03054	Sarah Gilles	Address:	Regulatory Agency
Email: jim_peace@golder.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)668-0880 Fax	Project Name: RMSGS Boundary Wells	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 21 day TAT	Project #:	Pace Profile #: 9045-3	IN

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Radium 226+226 (sum)	Residual Chlorine (Y/N)
1	BRMW-46-100323	WT	G			10/3/23	1325		2			2						X	
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**Sub RAD to Pace PA	FedEx	10/3/23	1630	FedEx			
	FedEx	10/4/23	0920		10/4/23	0920	2 3 Y Y Y

SAMPLER NAME AND SIGNATURE

10/3/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/04/23 1008 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):** 2.4/2.3 | | | |

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

5. **Packing Material:** ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

7. **If temp. is over 6°C or under 0°C, was the PM notified?:** ☐ Yes ☐ No

Cooler temp should be above freezing to 6°C

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		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
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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

60355502

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 Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 10 Al Paul Lane, Suite 103	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource	
Merrimack, NH 03054	Sarah Gilles	Address:	Regulatory Agency
Email: jim_peace@golder.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)668-0880 Fax	Project Name: RMSGS Boundary Wells	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 21 day TAT	Project #: 31404789.011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: Radium 226+226 (sum)	Residual Chlorine (Y/N)	
1	GRMW-46B - 100423	WT	G			10/4/23	1045		2			2						X	X		001
2	GRMW-42 - 100423	WT	G			10/4/23	1220		2			2						X	X		002
3	GRMW-42B - 100423	WT	G			10/4/23	1355		2			2						X	X		003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**Sub RAD to Pace PA	FedEx	10/4/23	1600	FedEx						
	FedEx	10.5.23	0920	Mark Shinkle / PACE	10.5.23	0920	0.5	Y	Y	Y

SAMPLER NAME AND SIGNATURE

10/4/23

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 10·05·2023 1020

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):** 0.6/0.5 | | | |
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. **Packing Material:** ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other _____

6. **Ice Type:** ☒ Wet ☐ Blue ☐ None

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

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

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR,CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		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
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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50355929

50355929

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 Client Information:		Required Project Information:		Section C Invoice Information:	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	Jeff Loewe U126177
Address:	10 Al Paul Lane, Suite 103	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrimack, NH 03054		Sarah Gilles	Address:	
Email:	jim_peace@golder.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)668-0880 Fax	Project Name:	RMSGS Boundary Wells	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	21 day TAT	Project #:	314047789.011	Pace Profile #:	9045-3

Regulatory Agency	
State / Location	IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+226 (sum)	Residual Chlorine (Y/N)	
1	GAMW-42C-100923	WT	G			10/9/23	1155		2			2							X		001
2	GAMW-43-100923	WT	G			10/9/23	1350		2			2							X		002
3	GAMW-43B-100923	WT	G			10/9/23	1405		2			2							X		003
4	FD-07-100923	WT	G			10/9/23	1200		2			2							X		004
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**Sub RAD to Pace PA	WSP	10/9/23	1630	Fedex						
	FedEx	10/10/23	0925		10/10/23	0925	1.6	Y	Y	Y

SAMPLER NAME AND SIGNATURE

10/9/23

F-IN-Q-290-rev.23, 26Jun2023

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: 10/10/23 1126 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): 1.6/1.6 | | | |

(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)		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~~ LR 10/16		X
Short Hold Time Analysis (48 hours or less)? Analysis:						
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:

COC PAGE 1 of 1

Sample Container Count

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

COC Line Item	WGFU	WGKU BG1U	MeOH (only) / SBS / DI / R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AMBER GLASS: AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	PLASTIC: BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	OTHER: CG3H	CG3F	Syringe Kit		Matrix
1																2												WT
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic
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

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 Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: NiSource_WSP	Report To: Tom Haskins	Attention: Jeff Loewe U126177	
Address: 10 Al Paul Lane, Suite 103	Copy To: Gabriel Dixon, Danielle Sylvia	Company Name: NiSource	
Merrimack, NH 03054	Sarah Gilles	Address:	Regulatory Agency
Email: jim_peace@golder.com	Purchase Order #: PO33924	Pace Quote:	
Phone: (603)668-0880 Fax	Project Name: RMSGS Boundary Wells	Pace Project Manager: tina.sayer@pacelabs.com,	State / Location
Requested Due Date: 21 day TAT	Project #: 314047789.011	Pace Profile #: 9045-3	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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Analyses Test: Radium 226+226 (sum)	Residual Chlorine (Y/N)	50356093
1	GRAW-44-101023	WT	G			10/10/23	1045		2			2						X			001
2	GRAW-44B-101023	WT	G			10/10/23	1145		2			2						X			002
3	GRAW-57-101023	WT	G			10/10/23	1310		2			2						X			MS-04/MSD-04 003-005
4	FB-07-101023	WT	G			10/10/23	1400		2			2						X			006
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
**Sub RAD to Pace PA	WSP	10/10/23	1630	FedEx						
	FedEx	10/11/23	920		10/11/23	920	1:2	Y	Y	Y

SAMPLER NAME AND SIGNATURE

10/10/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: TW 10/11/23 1300

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):** 1.7/1.7 | 1.2/1.2 | | |

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

5. **Packing Material:** ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other 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)		✓	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:

COC PAGE 1 of 1

Sample Container Count

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

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

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres FF SO4/OH buffer		

Miscellaneous

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

WO# : 50356259

50356259

CHAIN-OF-CUSTODY

The Chain-of-Custody is a LEGAL

Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Informatic	
Company:	NiSource_WSP	Report To:	Tom Haskins	Attention:	
Address:	10 Al Paul Lane, Suite 103	Copy To:	Gabriel Dixon, Danielle Sylvia	Company Name:	NiSource
	Merrimack, NH 03054		Sarah Gilies	Address:	
Email:	jim_peace@golder.com	Purchase Order #:	PO33924	Pace Quote:	
Phone:	(603)668-0880 Fax	Project Name:	RMSGS Boundary Wells	Pace Project Manager:	tina.sayer@pacelabs.com,
Requested Due Date:	21 day TAT	Project #:	31404789.011	Pace Profile #:	9045-3

Regulatory Agency

State / Location: IN

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Radium 226+226 (sum)	Residual Chlorine (Y/N)	
1	GAMW-57B-101123	WT	G			10/11/23	1005		2			2						X	X		001
2	GAMW-58-101123	WT	G			10/11/23	1130		2			2						X	X		002
3	GAMW-58B-101123	WT	G			10/11/23	1230		2			2						X	X		003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
**Sub RAD to Pace PA	[signature] / NSP	10/11/23	1430	FedEx			
	FedEx	10.12.23	0925	Nicole Stiles / PACE	10.12.23	0925	1.3 Y Y Y

SAMPLER NAME AND SIGNATURE

R. Guzman

10/11/23

Pace

SAMPLE CONDITION UPON RECEIPT FORM

Date/Time and Initials of person examining contents: NMS 10-12-2023 1117

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 | | | |
   (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
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
Short Hold Time Analysis (48 hours or less)? Analysis:		X
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:	
Rush TAT Requested (4 days or less):		X
Custody Signatures Present?	X	
Containers Intact?:	X	
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	X	
Extra labels on Terracore Vials? (soils only)		X

	Yes	No	N/A
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
	Present	Absent	N/A
Residual Chlorine Check (SVOC 625 Pest/PCB 608)			X
Residual Chlorine Check (Total/Amenable/Free Cyanide)			X
Headspace Wisconsin Sulfide?			X
	Present	Absent	No VOA Vials Sent
Headspace in VOA Vials (>6mm): See Containter Count form for details			X
Trip Blank Present?		X	
Trip Blank Custody Seals?:			X

COMMENTS:

COC PAGE 1 of 1

Sample Container Count

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

									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
COC Line Item	WGFU	WGKU BG1U	MeOH (only) SBS DI R	DG9H VG9H	VOA VIAL HS >6mm	VG9U DG9U	VG9T	AG0U	AG1H	AG1U	AG3U	AG3S	AG3SF	AG3B	BP1U	BP1N	BP2U	BP3U	BP3N	BP3F	BP3S	BP3B	BP3Z	CG3H	CG3F	Syringe Kit							
1																2												WT				
2																2																
3																2																
4																																
5																																
6																																
7																																
8																																
9																																
10																																
11																																
12																																

Container Codes

Glass

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

Plastic

BP1B	1L NaOH plastic	BP4U	125mL unpreserved plastic
BP1N	1L HNO3 plastic	BP4N	125mL HNO3 plastic
BP1S	1L H2SO4 plastic	BP4S	125mL H2SO4 plastic
BP1U	1L unpreserved plastic		
BP1Z	1L NaOH, Zn, Ac		
BP2N	500mL HNO3 plastic		
BP2C	500mL NaOH plastic		
BP2S	500mL H2SO4 plastic		
BP2U	500mL unpreserved plastic		
BP2Z	500mL NaOH, Zn Ac		
BP3B	250mL NaOH plastic		
BP3N	250mL HNO3 plastic		
BP3F	250mL HNO3 plastic-field filtered		
BP3U	250mL unpreserved plastic		
BP3S	250mL H2SO4 plastic		
BP3Z	250mL NaOH, ZnAc plastic		
BP3R	250mL Unpres. FF SO4/OH buffer		

Miscellaneous

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

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 April 12th and May 5th, 2023 and between September 13th and November 13th, 2023 at the R. M. Schahfer 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 103 groundwater samples, as well as 10 field blanks, 10 field duplicates, and 12 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 antimony results for samples FD-04-050123, GAMW-68-050123, and GAMW-68B-050123 were qualified as non-detect (U) due to field blank contamination.
- The barium result for sample GAMW-44B-050423 was qualified as estimated biased high (J+) due to field blank contamination.
- The boron result for sample GAMW-52B-092523 was qualified as non-detect (U) due to field blank contamination.
- The chromium results for samples FD-01-041923, GAMW-09-041923, GAMW-09B-041923, GAMW-17-041923, GAMW-18-041923, FD-02-042023, GAMW-16R-042023, GAMW-17B-042023, GAMW-18B-042023, GAMW-60-042023, GAMW-60B-042023, GAMW-54-042623, GAMW-54B-042623, GAMW-55B-042623, GAMW-55R-042623, FD-04-050123, GAMW-68-050123, GAMW-68B-050123, GAMW-44B-050423, GAMW-57-050423, FD-03-091923, FD-04-092123, FD-06-100223, GAMW-08-091923, GAMW-08B-091923, GAMW-09-092123, GAMW-09B-092123, GAMW-17B-100223, GAMW-18-092123, GAMW-51B-091923, GAMW-52-092523, GAMW-52B-092523, GAMW-54-092523, GAMW-54B-092523, GAMW-56B-092523, GAMW-59-091923, GAMW-60-091923, GAMW-60B-091923, GAMW-68-100223, GAMW-68B-100223, GAMW-44-101023, GAMW-44B-101023, and GAMW-57-101023 were qualified as non-detect (U) at the reporting limit due to field blank contamination.
- The lead results for samples FD-06-100223, GAMW-17B-100223, GAMW-52B-092523, GAMW-54-092523, GAMW-54B-092523, GAMW-68-100223, and GAMW-68B-100223 were qualified as non-detect (U) at the reporting limit due to field blank contamination.
- The selenium results for samples GAMW-57B-050523 and GAMW-58B-050523 were qualified as estimated and non-detect (UJ), and the selenium result for sample GAMW-58-050523 was qualified as estimated and potentially biased low (J-) due to MS/MSD percent recoveries below quality control limits.
- The radium-226 result for sample GAMW-43B-100923 was qualified as estimated (J), and the sample result for sample FD-07-100923 was qualified as estimated and non-detect (UJ) due to field duplicate RPDs greater than quality control limits.
- The radium-228 results for samples GAMW-55B-092923, GAMW-17B-100223, and GAMW-68B-100223 were qualified as non-detect (U) due to method blank contamination. The associated total radium result for GAMW-17B-100223 was also qualified as non-detect (U) due to method blank contamination.
- The radium-226 result for sample GAMW-01-041323 was qualified as estimated and non-detect (UJ), and the radium-226 result for GAMW-01B-041323 was qualified as estimated and potentially biased low (J-) due to an MS recovery below quality control limits.

- The radium-228 and associated total radium results for samples GAMW-17B-042023, GAMW-16R-042023, and FD-02-042023 were qualified as estimated and non-detect (UJ) due to an MS recovery below quality control limits and an MS/MSD relative percent difference above quality control limits.
- The radium-228 and associated total radium results for samples GAMW-18B-042023 and GAMW-60B-042023 were qualified as estimated and potentially biased low (J-) due to an MS recovery below quality control limits and an MS/MSD relative percent difference above quality control limits.
- The radium-228 result for sample GAMW-60-042023 was qualified as estimated and potentially biased low (J-), and its associated total radium result was qualified as estimated and non-detect (UJ) due to an MS recovery below quality control limits and an MS/MSD relative percent difference above quality control limits.
- The radium-228 and associated total radium results for sample GAMW-01-041323 were qualified as estimated and non-detect (UJ) due to an MS/MSD recovery below quality control limits.
- The radium-228 and associated total radium results for sample GAMW-01B-041323 were qualified as estimated and potentially biased low (J-) due to an MS/MSD recovery below quality control limits.
- The radium-228 and associated total radium results for samples GAMW-52-042523 and FD-03-042523 were qualified as estimated and non-detect (UJ) due to an MS/MSD relative percent difference above quality control limits.
- The radium-228 and associated total radium results for samples GAMW-52B-042523, GAMW-13-091423, GAMW-14B-091423, and GAMW-13B-091423 were qualified as estimated (J) due to an MS/MSD relative percent difference above quality control limits.
- The radium-228 result for sample GAMW-14-091423 was qualified as estimated (J), and its associated total radium result was qualified as estimated and non-detect (UJ) due to an MS/MSD relative percent difference above 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 - R. M. Schahfer

Laboratory SDG	*Field Identification*	*Collection Date*	*Location*	*Matrix*	*QC Samples*	Anions by EPA 9056	Metals by EPA 6010 and 6020	Mercury by EPA 7470	Total Dissolved Solids by SM 2540C	pH by SM 4500-H+B	Radium-226	Radium-228	Combined Radium
50341962	GAMW-14-041223	4/12/2023	GAMW14	GW	-	X	X	X	X	X			
50341962	GAMW-14B-041223	4/12/2023	GAMW14B	GW	-	X	X	X	X	X			
50341962	GAMW-01-041323	4/13/2023	GAMW01	GW	-	X	X	X	X	X			
50341962	GAMW-01B-041323	4/13/2023	GAMW01B	GW	MS/MSD	X	X	X	X	X			
50341962	GAMW-03-041423	4/14/2023	GAMW03	GW	-	X	X	X	X	X			
50341962	GAMW-03B-041423	4/14/2023	GAMW03B	GW	-	X	X	X	X	X			
50341962	GAMW-12-041423	4/14/2023	GAMW12	GW	-	X	X	X	X	X			
50341962	GAMW-12B-041423	4/14/2023	GAMW12B	GW	-	X	X	X	X	X			
50341962	GAMW-13-041423	4/14/2023	GAMW13	GW	-	X	X	X	X	X			
50341962	GAMW-13B-041423	4/14/2023	GAMW13B	GW	-	X	X	X	X	X			
50341962	GAMW-51-041523	4/15/2023	GAMW51	GW	-	X	X	X	X	X			
50341962	GAMW-51B-041523	4/15/2023	GAMW51B	GW	-	X	X	X	X	X			
50341962	GAMW-59-041523	4/15/2023	GAMW59	GW	-	X	X	X	X	X			
50341962	GAMW-59B-041523	4/15/2023	GAMW59B	GW	-	X	X	X	X	X			
50341962	FB-01-041923	4/19/2023	-	WQ	FB	X	X	X	X	X			
50341962	FD-01-041923	4/19/2023	GAMW09B	GW	FD	X	X	X	X	X			
50341962	GAMW-09-041923	4/19/2023	GAMW09	GW	-	X	X	X	X	X			
50341962	GAMW-09B-041923	4/19/2023	GAMW09B	GW	-	X	X	X	X	X			
50341962	GAMW-17-041923	4/19/2023	GAMW17	GW	-	X	X	X	X	X			
50341962	GAMW-18-041923	4/19/2023	GAMW18	GW	-	X	X	X	X	X			
50341962	FB-02-042023	4/20/2023	-	WQ	FB	X	X	X	X	X			
50341962	FD-02-042023	4/20/2023	GAMW60	GW	FD	X	X	X	X	X			
50341962	GAMW-16R-042023	4/20/2023	GAMW16R	GW	-	X	X	X	X	X			
50341962	GAMW-17B-042023	4/20/2023	GAMW17B	GW	MS/MSD	X	X	X	X	X			
50341962	GAMW-18B-042023	4/20/2023	GAMW18B	GW	-	X	X	X	X	X			
50341962	GAMW-60-042023	4/20/2023	GAMW60	GW	-	X	X	X	X	X			
50341962	GAMW-60B-042023	4/20/2023	GAMW60B	GW	-	X	X	X	X	X			
50341962	GAMW-08-042123	4/21/2023	GAMW08	GW	-	X	X	X	X	X			
50341962	GAMW-08B-042123	4/21/2023	GAMW08B	GW	-	X	X	X	X	X			
50341962	GAMW-16BR-042123	4/21/2023	GAMW16BR	GW	-	X	X	X	X	X			
50341962	GAMW-56-042123	4/21/2023	GAMW56	GW	-	X	X	X	X	X			
50341962	GAMW-56B-042123	4/21/2023	GAMW56B	GW	-	X	X	X	X	X			
50341962	GAMW-53-042423	4/24/2023	GAMW53	GW	-	X	X	X	X	X			
50341962	GAMW-53B-042423	4/24/2023	GAMW53B	GW	-	X	X	X	X	X			
50341962	FD-03-042523	4/25/2023	GAMW52	GW	FD	X	X	X	X	X			
50341962	GAMW-52-042523	4/25/2023	GAMW52	GW	-	X	X	X	X	X			
50341962	GAMW-52B-042523	4/25/2023	GAMW52B	GW	MS/MSD	X	X	X	X	X			
50341962	FB-03-042623	4/26/2023	-	WQ	FB	X	X	X	X	X			
50341962	GAMW-54-042623	4/26/2023	GAMW54	GW	-	X	X	X	X	X			
50341962	GAMW-54B-042623	4/26/2023	GAMW54B	GW	-	X	X	X	X	X			
50341962	GAMW-55B-042623	4/26/2023	GAMW55B	GW	-	X	X	X	X	X			
50341962	GAMW-55R-042623	4/26/2023	GAMW55R	GW	-	X	X	X	X	X			
50341962	FB-04-050123	5/1/2023	-	WQ	FB	X	X	X	X	X			

TABLE 1
Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Laboratory SDG	*Field Identification*	*Collection Date*	*Location*	*Matrix*	*QC Samples*	Anions by EPA 9056	Metals by EPA 6010 and 6020	Mercury by EPA 7470	Total Dissolved Solids by SM 2540C	pH by SM 4500-H+B	Radium-226	Radium-228	Combined Radium
50341962	FD-04-050123	5/1/2023	GAMW68B	GW	FD	X	X	X	X	X			
50341962	GAMW-68-050123	5/1/2023	GAMW68	GW	-	X	X	X	X	X			
50341962	GAMW-68B-050123	5/1/2023	GAMW68B	GW	-	X	X	X	X	X			
50341961	GAMW-14-041223	4/12/2023	GAMW14	GW	-						X	X	X
50341961	GAMW-14B-041223	4/12/2023	GAMW14B	GW	-						X	X	X
50341961	GAMW-01-041323	4/13/2023	GAMW01	GW	-						X	X	X
50341961	GAMW-01B-041323	4/13/2023	GAMW01B	GW	-						X	X	X
50341961	GAMW-01B-041323 MS	4/13/2023	GAMW01B	WQ	MS						X	X	X
50341961	GAMW-01B-041323 MSD	4/13/2023	GAMW01B	WQ	MSD						X	X	X
50341961	GAMW-03-041423	4/14/2023	GAMW03	GW	-						X	X	X
50341961	GAMW-03B-041423	4/14/2023	GAMW03B	GW	-						X	X	X
50341961	GAMW-12-041423	4/14/2023	GAMW12	GW	-						X	X	X
50341961	GAMW-12B-041423	4/14/2023	GAMW12B	GW	-						X	X	X
50341961	GAMW-13-041423	4/14/2023	GAMW13	GW	-						X	X	X
50341961	GAMW-13B-041423	4/14/2023	GAMW13B	GW	-						X	X	X
50341961	GAMW-51-041523	4/15/2023	GAMW51	GW	-						X	X	X
50341961	GAMW-51B-041523	4/15/2023	GAMW51B	GW	-						X	X	X
50341961	GAMW-59-041523	4/15/2023	GAMW59	GW	-						X	X	X
50341961	GAMW-59B-041523	4/15/2023	GAMW59B	GW	-						X	X	X
50341961	GAMW-09-041923	4/19/2023	GAMW09	GW	-						X	X	X
50341961	GAMW-09B-041923	4/19/2023	GAMW09B	GW	-						X	X	X
50341961	GAMW-17-041923	4/19/2023	GAMW17	GW	-						X	X	X
50341961	GAMW-18-041923	4/19/2023	GAMW18	GW	-						X	X	X
50341961	FD-01-041923	4/19/2023	GAMW09B	GW	FD						X	X	X
50341961	FB-01-041923	4/19/2023	GAMW18	WQ	FB						X	X	X
50341961	GAMW-17B-042023	4/20/2023	GAMW17B	GW	-						X	X	X
50341961	GAMW-18B-042023	4/20/2023	GAMW18B	GW	-						X	X	X
50341961	GAMW-60-042023	4/20/2023	GAMW60	GW	-						X	X	X
50341961	GAMW-60B-042023	4/20/2023	GAMW60B	GW	-						X	X	X
50341961	GAMW-16R-042023	4/20/2023	GAMW16R	GW	-						X	X	X
50341961	FD-02-042023	4/20/2023	GAMW60	GW	FD						X	X	X
50341961	FB-02-042023	4/20/2023	GAMW60B	WQ	FB						X	X	X
50341961	GAMW-17B-042023 MS	4/20/2023	GAMW17B	WQ	MS						X	X	X
50341961	GAMW-17B-042023 MSD	4/20/2023	GAMW17B	WQ	MSD						X	X	X
50341961	GAMW-56-042123	4/21/2023	GAMW56	GW	-						X	X	X
50341961	GAMW-56B-042123	4/21/2023	GAMW56B	GW	-						X	X	X
50341961	GAMW-16BR-042123	4/21/2023	GAMW16BR	GW	-						X	X	X
50341961	GAMW-08-042123	4/21/2023	GAMW08	GW	-						X	X	X
50341961	GAMW-08B-042123	4/21/2023	GAMW08B	GW	-						X	X	X
50341961	GAMW-53-042423	4/24/2023	GAMW53	GW	-						X	X	X
50341961	GAMW-53B-042423	4/24/2023	GAMW53B	GW	-						X	X	X
50341961	GAMW-52-042523	4/25/2023	GAMW52	GW	-						X	X	X
50341961	GAMW-52B-042523	4/25/2023	GAMW52B	GW	-						X	X	X
50341961	GAMW-52B-042523 MS	4/25/2023	GAMW52B	WQ	MS						X	X	X
50341961	GAMW-52B-042523 MSD	4/25/2023	GAMW52B	WQ	MSD						X	X	X
50341961	FD-03-042523	4/25/2023	GAMW52	GW	FD						X	X	X
50341961	GAMW-68-050123	5/1/2023	GAMW68	GW	-						X	X	X
50341961	GAMW-68B-050123	5/1/2023	GAMW68B	GW	-						X	X	X

TABLE 1
Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Laboratory SDG	*Field Identification*	*Collection Date*	*Location*	*Matrix*	*QC Samples*	Anions by EPA 9056	Metals by EPA 6010 and 6020	Mercury by EPA 7470	Total Dissolved Solids by SM 2540C	pH by SM 4500-H+B	Radium-226	Radium-228	Combined Radium
50341961	FB-04-050123	5/1/2023	GAMW68B	WQ	FB						X	X	X
50341961	FD-04-050123	5/1/2023	GAMW68B	GW	FD						X	X	X
50341961	GAMW-54-042623	4/26/2023	GAMW54	GW	-						X	X	X
50341961	GAMW-54B-042623	4/26/2023	GAMW54B	GW	-						X	X	X
50341961	GAMW-55R-042623	4/26/2023	GAMW55R	GW	-						X	X	X
50341961	GAMW-55B-042623	4/26/2023	GAMW55B	GW	-						X	X	X
50341961	FB-03-042623	4/26/2023	GAMW54B	WQ	FB						X	X	X
50343391	GAMW-46-042723	4/27/2023	GAMW-46	GW	-	X	X	X	X	X			
50343391	GAMW-46B-042723	4/27/2023	GAMW-46B	GW	-	X	X	X	X	X			
50343391	GAMW-42-050223	5/2/2023	GAMW-42	GW	-	X	X	X	X	X			
50343391	GAMW-42B-050223	5/2/2023	GAMW-42B	GW	-	X	X	X	X	X			
50343391	GAMW-42C-050323	5/3/2023	GAMW-42C	GW	-	X	X	X	X	X			
50343391	GAMW-43-050323	5/3/2023	GAMW-43	GW	-	X	X	X	X	X			
50343391	GAMW-43B-050323	5/3/2023	GAMW-43B	GW	-	X	X	X	X	X			
50343391	FD-05-050323	5/3/2023	GAMW-43	GW	FD	X	X	X	X	X			
50343391	GAMW-44-050423	5/4/2023	GAMW-44	GW	-	X	X	X	X	X			
50343391	GAMW-44B-050423	5/4/2023	GAMW-44B	GW	-	X	X	X	X	X			
50343391	GAMW-57-050423	5/4/2023	GAMW-57	GW	-	X	X	X	X	X			
50343391	FB-05-050424	5/4/2023	GAMW-57	WQ	FB	X	X	X	X	X			
50343391	GAMW-57B-050523	5/5/2023	GAMW-57B	GW	-	X	X	X	X	X			
50343391	GAMW-58-050523	5/5/2023	GAMW-58	GW	-	X	X	X	X	X			
50343391	GAMW-58B-050523	5/5/2023	GAMW-58B	GW	-	X	X	X	X	X			
50343389	GAMW-46-042723	4/27/2023	GAMW-46	GW	-						X	X	X
50343389	GAMW-46B-042723	4/27/2023	GAMW-46B	GW	-						X	X	X
50343389	GAMW-42-050223	5/2/2023	GAMW-42	GW	-						X	X	X
50343389	GAMW-42B-050223	5/2/2023	GAMW-42B	GW	-						X	X	X
50343389	GAMW-42C-050323	5/3/2023	GAMW-42C	GW	-						X	X	X
50343389	GAMW-43-050323	5/3/2023	GAMW-43	GW	-						X	X	X
50343389	GAMW-43B-050323	5/3/2023	GAMW-43B	GW	-						X	X	X
50343389	FD-05-050323	5/3/2023	GAMW-43	GW	FD						X	X	X
50343389	GAMW-44-050424	5/4/2023	GAMW-44	GW	-						X	X	X
50343389	GAMW-44B-050424	5/4/2023	GAMW-44B	GW	-						X	X	X
50343389	GAMW-57-050424	5/4/2023	GAMW-57	GW	-						X	X	X
50343389	FB-05-050424	5/4/2023	GAMW-57	WQ	FB						X	X	X
50343389	GAMW-57B-050523	5/5/2023	GAMW-57B	GW	-						X	X	X
50343389	GAMW-58-050523	5/5/2023	GAMW-58	GW	-						X	X	X
50343389	GAMW-58B-050523	5/5/2023	GAMW-58B	GW	-						X	X	X
50341962	GAMW-01-091323	9/13/2023	GAMW-01	GW	-	X	X	X	X	X			
50341962	GAMW-01B-091323	9/13/2023	GAMW-01B	GW	-	X	X	X	X	X			
50341962	GAMW-14-091423	9/14/2023	GAMW-14	GW	-	X	X	X	X	X			
50341962	GAMW-14B-091423	9/14/2023	GAMW-14B	GW	-	X	X	X	X	X			
50341962	GAMW-13-091423	9/14/2023	GAMW-13	GW	MS/MSD	X	X	X	X	X			
50341962	GAMW-13B-091423	9/14/2023	GAMW-13B	GW	-	X	X	X	X	X			
50341962	GAMW-12-091523	9/15/2023	GAMW-12	GW	-	X	X	X	X	X			
50341962	GAMW-12B-091523	9/15/2023	GAMW-12B	GW	-	X	X	X	X	X			
50341962	GAMW-03-091523	9/15/2023	GAMW-03	GW	-	X	X	X	X	X			
50341962	GAMW-03B-091523	9/15/2023	GAMW-03B	GW	-	X	X	X	X	X			
50341962	GAMW-51-091823	9/18/2023	GAMW-51	GW	-	X	X	X	X	X			
50341962	GAMW-51B-091923	9/19/2023	GAMW-51B	GW	-	X	X	X	X	X			
50341962	GAMW-08-091923	9/19/2023	GAMW-08	GW	-	X	X	X	X	X			
50341962	GAMW-08B-091923	9/19/2023	GAMW-08B	GW	-	X	X	X	X	X			

TABLE 1
Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Laboratory SDG	Field Identification	Collection Date	Location	Matrix	QC Samples	Anions by EPA 9056	Metals by EPA 6010 and 6020	Mercury by EPA 7470	Total Dissolved Solids by SM 2540C	pH by SM 4500-H+B	Radium-226	Radium-228	Combined Radium
50341962	FD-03-091923	9/19/2023	GAMW-51B	GW	FD	X	X	X	X	X			
50341962	FB-04-091923	9/19/2023	GAMW-08B	WQ	FB	X	X	X	X	X			
50341962	GAMW-60-091923	9/19/2023	GAMW-60	GW	-	X	X	X	X	X			
50341962	GAMW-60B-091923	9/19/2023	GAMW-60B	GW	-	X	X	X	X	X			
50341962	GAMW-59-091923	9/19/2023	GAMW-59	GW	-	X	X	X	X	X			
50341962	GAMW-16R-092023	9/20/2023	GAMW-16R	GW	MS/MSD	X	X	X	X	X			
50341962	GAMW-16BR-092023	9/20/2023	GAMW-16BR	GW	-	X	X	X	X	X			
50341962	GAMW-59B-092023	9/20/2023	GAMW-59B	GW	-	X	X	X	X	X			
50341962	GAMW-17-092023	9/20/2023	GAMW-17	GW	-	X	X	X	X	X			
50341962	GAMW-09-092123	9/21/2023	GAMW-09	GW	-	X	X	X	X	X			
50341962	GAMW-09B-092123	9/21/2023	GAMW-09B	GW	-	X	X	X	X	X			
50341962	GAMW-18-092123	9/21/2023	GAMW-18	GW	-	X	X	X	X	X			
50341962	FB-03-092123	9/21/2023	GAMW-09	WQ	FB	X	X	X	X	X			
50341962	FD-04-092123	9/21/2023	GAMW-18	GW	FD	X	X	X	X	X			
50341962	GAMW-18B-092223	9/22/2023	GAMW-18B	GW	-	X	X	X	X	X			
50341962	GAMW-56-092223	9/22/2023	GAMW-56	GW	-	X	X	X	X	X			
50341962	FD-05-092223	9/22/2023	GAMW-56	GW	FD	X	X	X	X	X			
50341962	GAMW-54-092523	9/25/2023	GAMW-54	GW	-	X	X	X	X	X			
50341962	GAMW-54B-092523	9/25/2023	GAMW-54B	GW	-	X	X	X	X	X			
50341962	FB-05-092523	9/25/2023	GAMW-54B	WQ	FB	X	X	X	X	X			
50341962	GAMW-56B-092523	9/25/2023	GAMW-56B	GW	-	X	X	X	X	X			
50341962	GAMW-52-092523	9/25/2023	GAMW-52	GW	-	X	X	X	X	X			
50341962	GAMW-52B-092523	9/25/2023	GAMW-52B	GW	-	X	X	X	X	X			
50341962	GAMW-53-092823	9/28/2023	GAMW-53	GW	-	X	X	X	X	X			
50341962	GAMW-53B-092823	9/28/2023	GAMW-53B	GW	-	X	X	X	X	X			
50341962	GAMW-55R-092923	9/29/2023	GAMW-55R	GW	-	X	X	X	X	X			
50341962	GAMW-55B-092923	9/29/2023	GAMW-55B	GW	-	X	X	X	X	X			
50341962	GAMW-17B-100223	10/2/2023	GAMW-17B	GW	-	X	X	X	X	X			
50341962	GAMW-68-100223	10/2/2023	GAMW-68	GW	-	X	X	X	X	X			
50341962	GAMW-68B-100223	10/2/2023	GAMW-68B	GW	-	X	X	X	X	X			
50341962	FD-06-100223	10/2/2023	GAMW-68B	GW	FD	X	X	X	X	X			
50341962	FB-06-100223	10/2/2023	GAMW-68B	WQ	FB	X	X	X	X	X			
50353853	GAMW-01-091323	9/13/2023	GAMW01	GW	-						X	X	X
50353853	GAMW-01B-091323	9/13/2023	GAMW01B	GW	-						X	X	X
50353853	GAMW-14-091423	9/14/2023	GAMW14	GW	-						X	X	X
50353853	GAMW-14B-091423	9/14/2023	GAMW14B	GW	-						X	X	X
50353853	GAMW-13-091423	9/14/2023	GAMW13	GW	-						X	X	X
50353853	GAMW-13-091423 MS	9/14/2023	GAMW13	GW	MS						X	X	X
50353853	GAMW-13-091423 MSD	9/14/2023	GAMW13	GW	MSD						X	X	X
50353853	GAMW-13B-091423	9/14/2023	GAMW13B	GW	-						X	X	X
50353853	GAMW-12-091523	9/15/2023	GAMW12	GW	-						X	X	X
50353853	GAMW-12B-091523	9/15/2023	GAMW12B	GW	-						X	X	X
50353853	GAMW-03-091523	9/15/2023	GAMW03	GW	-						X	X	X
50353853	GAMW-03B-091523	9/15/2023	GAMW03B	GW	-						X	X	X
50353853	GAMW-51-091823	9/18/2023	GAMW51	GW	-						X	X	X
50353853	GAMW-51B-091923	9/19/2023	GAMW51B	GW	-						X	X	X
50353853	GAMW-08-091923	9/19/2023	GAMW08	GW	-						X	X	X
50353853	GAMW-08B-091923	9/19/2023	GAMW08B	GW	-						X	X	X
50353853	FD-03-091923	9/19/2023	GAMW51B	GW	FD						X	X	X
50353853	FB-04-091923	9/19/2023	GAMW08B	WQ	FB						X	X	X
50353853	GAMW-60-091923	9/19/2023	GAMW60	GW	-						X	X	X

TABLE 1
Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Laboratory SDG	Field Identification	Collection Date	Location	Matrix	QC Samples	Anions by EPA 9056	Metals by EPA 6010 and 6020	Mercury by EPA 7470	Total Dissolved Solids by SM 2540C	pH by SM 4500-H+B	Radium-226	Radium-228	Combined Radium
50353853	GAMW-60B-091923	9/19/2023	GAMW60B	GW	-						X	X	X
50353853	GAMW-59-091923	9/19/2023	GAMW59	GW	-						X	X	X
50353853	GAMW-16R-092023	9/20/2023	GAMW16R	GW	-						X	X	X
50353853	GAMW-16R-092023 MS	9/20/2023	GAMW16R	GW	MS						X	X	X
50353853	GAMW-16R-092023 MSD	9/20/2023	GAMW16R	GW	MSD						X	X	X
50353853	GAMW-16BR-092023	9/20/2023	GAMW16BR	GW	-						X	X	X
50353853	GAMW-59B-092023	9/20/2023	GAMW59B	GW	-						X	X	X
50353853	GAMW-17-092023	9/20/2023	GAMW17	GW	-						X	X	X
50353853	GAMW-09-092123	9/21/2023	GAMW09	GW	-						X	X	X
50353853	GAMW-09B-092123	9/21/2023	GAMW09B	GW	-						X	X	X
50353853	GAMW-18-092123	9/21/2023	GAMW18	GW	-						X	X	X
50353853	FB-03-092123	9/21/2023	GAMW09	WQ	FB						X	X	X
50353853	FD-04-092123	9/21/2023	GAMW18	GW	FD						X	X	X
50353853	GAMW-18B-092223	9/22/2023	GAMW18B	GW	-						X	X	X
50353853	GAMW-56-092223	9/22/2023	GAMW56	GW	-						X	X	X
50353853	FD-05-092223	9/22/2023	GAMW56	GW	FD						X	X	X
50353853	GAMW-54-092523	9/25/2023	GAMW54	GW	-						X	X	X
50353853	GAMW-54B-092523	9/25/2023	GAMW54B	GW	-						X	X	X
50353853	FB-05-092523	9/25/2023	GAMW54B	WQ	FB						X	X	X
50353853	GAMW-56B-092523	9/25/2023	GAMW56B	GW	-						X	X	X
50353853	GAMW-52-092523	9/25/2023	GAMW52	GW	-						X	X	X
50353853	GAMW-52B-092523	9/25/2023	GAMW52B	GW	-						X	X	X
50353853	GAMW-53-092823	9/28/2023	GAMW53	GW	-						X	X	X
50353853	GAMW-53B-092823	9/28/2023	GAMW53B	GW	-						X	X	X
50353853	GAMW-55R-092923	9/29/2023	GAMW55R	GW	-						X	X	X
50353853	GAMW-55B-092923	9/29/2023	GAMW55B	GW	-						X	X	X
50353853	GAMW-17B-092923	9/29/2023	GAMW17B	GW	-						X	X	X
50353853	GAMW-68-100223	10/2/2023	GAMW68	GW	-						X	X	X
50353853	GAMW-68B-100223	10/2/2023	GAMW68B	GW	-						X	X	X
50353853	FD-06-100223	10/2/2023	GAMW68B	GW	FD						X	X	X
50353853	FB-06-100223	10/2/2023	GAMW68B	WQ	FB						X	X	X
50355350	GAMW-46-100323	10/3/2023	GAMW46	GW	-	X	X	X	X	X			
50355350	GAMW-46B-100423	10/4/2023	GAMW46B	GW	-	X	X	X	X	X			
50355350	GAMW-42-100423	10/4/2023	GAMW42	GW	-	X	X	X	X	X			
50355350	GAMW-42B-100423	10/4/2023	GAMW42B	GW	-	X	X	X	X	X			
50355350	GAMW-42C-100923	10/9/2023	GAMW42C	GW	-	X	X	X	X	X			
50355350	GAMW-43-100923	10/9/2023	GAMW43	GW	-	X	X	X	X	X			
50355350	GAMW-43B-100923	10/9/2023	GAMW43B	GW	-	X	X	X	X	X			
50355350	FD-07-100923	10/9/2023	GAMW43B	GW	FD	X	X	X	X	X			
50355350	GAMW-44-101023	10/10/2023	GAMW44	GW	-	X	X	X	X	X			
50355350	GAMW-44B-101023	10/10/2023	GAMW44B	GW	-	X	X	X	X	X			
50355350	GAMW-57-101023	10/10/2023	GAMW57	GW	MS/MSD	X	X	X	X	X			
50355350	FB-07-101023	10/10/2023	GAMW57	WQ	FB	X	X	X	X	X			
50355350	GAMW-57B-101123	10/11/2023	GAMW57B	GW	-	X	X	X	X	X			
50355350	GAMW-58-101123	10/11/2023	GAMW58	GW	-	X	X	X	X	X			
50355350	GAMW-58B-101123	10/11/2023	GAMW58B	GW	-	X	X	X	X	X			
50355352	GAMW-46-100323	10/3/2023	GAMW46	GW	-						X	X	X
50355352	GAMW-46B-100423	10/4/2023	GAMW46B	GW	-						X	X	X
50355352	GAMW-42-100423	10/4/2023	GAMW42	GW	-						X	X	X
50355352	GAMW-42B-100423	10/4/2023	GAMW42B	GW	-						X	X	X
50355352	GAMW-42C-100923	10/9/2023	GAMW42C	GW	-						X	X	X

TABLE 1
Sample Collection and Analysis Summary
NIPSCO LLC CCR Groundwater Monitoring - R. M. Schahfer

Laboratory SDG	*Field Identification*	*Collection Date*	*Location*	*Matrix*	*QC Samples*	Anions by EPA 9056	Metals by EPA 6010 and 6020	Mercury by EPA 7470	Total Dissolved Solids by SM 2540C	pH by SM 4500-H+B	Radium-226	Radium-228	Combined Radium
50355352	GAMW-43-100923	10/9/2023	GAMW43	GW	-						X	X	X
50355352	GAMW-43B-100923	10/9/2023	GAMW43B	GW	-						X	X	X
50355352	FD-07-100923	10/9/2023	GAMW43B	GW	FD						X	X	X
50355352	GAMW-44-101023	10/10/2023	GAMW44	GW	-						X	X	X
50355352	GAMW-44B-101023	10/10/2023	GAMW44B	GW	-						X	X	X
50355352	GAMW-57-101023	10/10/2023	GAMW57	GW	MS/MSD						X	X	X
50355352	GAMW-57-101023 MS	10/10/2023	GAMW57	GW	-						X	X	X
50355352	GAMW-57-101023 MSD	10/10/2023	GAMW57	GW	-						X	X	X
50355352	FB-07-101023	10/10/2023	GAMW57	WQ	FB						X	X	X
50355352	GAMW-57B-101123	10/11/2023	GAMW57B	GW	-						X	X	X
50355352	GAMW-58-101123	10/11/2023	GAMW58	GW	-						X	X	X
50355352	GAMW-58B-101123	10/11/2023	GAMW58B	GW	-						X	X	X
50359626	GAMW-77-111323	11/13/2023	GAMW-77	GW	-	X	X	X	X	X			
50359628	GAMW-77-111324	11/14/2023	GAMW-77	GW							X	X	X

Notes:
All analyses performed by PACE at the Indianapolis, IN and Greensburg, PA laboratories.

Abbreviations:
WQ: Water Quality
FB: Field Blank
FD: Field Duplicate
MS/MSD: Matrix Spike/Matrix Spike Duplicate
EPA: Environmental Protection Agency
SM: Standard Methods
GW: Ground Water
QC: Quality Control
SDG: Sample Delivery Group

TABLE 2

Qualifier Summary Table

NIPSCO CCR Groundwater Monitoring - R. M. Schahfer

SDG	Sample Name	Constituent	New Result	New RL	Qualifier	Reason
50341962	GAMW-14-041223	pH	-	-	J	Method holding time exceedance
50341962	GAMW-14B-041223	pH	-	-	J	Method holding time exceedance
50341962	GAMW-01-041323	pH	-	-	J	Method holding time exceedance
50341962	GAMW-01B-041323	pH	-	-	J	Method holding time exceedance
50341962	GAMW-03-041423	pH	-	-	J	Method holding time exceedance
50341962	GAMW-03B-041423	pH	-	-	J	Method holding time exceedance
50341962	GAMW-12-041423	pH	-	-	J	Method holding time exceedance
50341962	GAMW-12B-041423	pH	-	-	J	Method holding time exceedance
50341962	GAMW-13-041423	pH	-	-	J	Method holding time exceedance
50341962	GAMW-13B-041423	pH	-	-	J	Method holding time exceedance
50341962	GAMW-51-041523	pH	-	-	J	Method holding time exceedance
50341962	GAMW-51B-041523	pH	-	-	J	Method holding time exceedance
50341962	GAMW-59-041523	pH	-	-	J	Method holding time exceedance
50341962	GAMW-59B-041523	pH	-	-	J	Method holding time exceedance
50341962	FD-01-041923	pH	-	-	J	Method holding time exceedance
50341962	GAMW-09-041923	pH	-	-	J	Method holding time exceedance
50341962	GAMW-09B-041923	pH	-	-	J	Method holding time exceedance
50341962	GAMW-17-041923	pH	-	-	J	Method holding time exceedance
50341962	GAMW-18-041923	pH	-	-	J	Method holding time exceedance
50341962	FD-02-042023	pH	-	-	J	Method holding time exceedance
50341962	GAMW-16R-042023	pH	-	-	J	Method holding time exceedance
50341962	GAMW-17B-042023	pH	-	-	J	Method holding time exceedance
50341962	GAMW-18B-042023	pH	-	-	J	Method holding time exceedance
50341962	GAMW-60-042023	pH	-	-	J	Method holding time exceedance
50341962	GAMW-60B-042023	pH	-	-	J	Method holding time exceedance
50341962	GAMW-08-042123	pH	-	-	J	Method holding time exceedance
50341962	GAMW-08B-042123	pH	-	-	J	Method holding time exceedance
50341962	GAMW-16BR-042123	pH	-	-	J	Method holding time exceedance
50341962	GAMW-56-042123	pH	-	-	J	Method holding time exceedance
50341962	GAMW-56B-042123	pH	-	-	J	Method holding time exceedance
50341962	GAMW-53-042423	pH	-	-	J	Method holding time exceedance
50341962	GAMW-53B-042423	pH	-	-	J	Method holding time exceedance
50341962	FD-03-042523	pH	-	-	J	Method holding time exceedance
50341962	GAMW-52-042523	pH	-	-	J	Method holding time exceedance
50341962	GAMW-52B-042523	pH	-	-	J	Method holding time exceedance
50341962	GAMW-54-042623	pH	-	-	J	Method holding time exceedance
50341962	GAMW-54B-042623	pH	-	-	J	Method holding time exceedance
50341962	GAMW-55B-042623	pH	-	-	J	Method holding time exceedance
50341962	GAMW-55R-042623	pH	-	-	J	Method holding time exceedance
50341962	FD-04-050123	pH	-	-	J	Method holding time exceedance
50341962	GAMW-68-050123	pH	-	-	J	Method holding time exceedance
50341962	GAMW-68B-050123	pH	-	-	J	Method holding time exceedance
50341962	FD-01-041923	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-09-041923	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-09B-041923	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-17-041923	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-18-041923	Chromium	0.002	-	U	Field blank contamination
50341962	FD-02-042023	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-16R-042023	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-17B-042023	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-18B-042023	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-60-042023	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-60B-042023	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-54-042623	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-54B-042623	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-55B-042623	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-55R-042623	Chromium	0.002	-	U	Field blank contamination
50341962	FD-04-050123	Antimony	0.001	-	U	Field blank contamination
50341962	GAMW-68-050123	Antimony	0.001	-	U	Field blank contamination
50341962	GAMW-68B-050123	Antimony	0.001	-	U	Field blank contamination
50341962	FD-04-050123	Chromium	0.002	-	U	Field blank contamination

TABLE 2

Qualifier Summary Table

NIPSCO CCR Groundwater Monitoring - R. M. Schahfer

SDG	Sample Name	Constituent	New Result	New RL	Qualifier	Reason
50341962	GAMW-68-050123	Chromium	0.002	-	U	Field blank contamination
50341962	GAMW-68B-050123	Chromium	0.002	-	U	Field blank contamination
50341961	GAMW-01-041323	Radium-226	-	-	UJ	MS recovery below QC criteria
50341961	GAMW-01-041323	Radium-228	-	-	UJ	MS/MSD recovery below QC criteria
50341961	GAMW-01-041323	Total Radium	-	-	UJ	MS/MSD recovery below QC criteria
50341961	GAMW-01B-041323	Radium-226	-	-	J-	MS recovery below QC criteria
50341961	GAMW-01B-041323	Radium-228	-	-	J-	MS/MSD recovery below QC criteria
50341961	GAMW-01B-041323	Total Radium	-	-	J-	MS/MSD recovery below QC criteria
50341961	GAMW-17B-042023	Radium-228	-	-	UJ	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-17B-042023	Total Radium	-	-	UJ	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-18B-042023	Radium-228	-	-	J-	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-18B-042023	Total Radium	-	-	J-	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-60-042023	Radium-228	-	-	J-	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-60-042023	Total Radium	-	-	UJ	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-60B-042023	Radium-228	-	-	J-	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-60B-042023	Total Radium	-	-	J-	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-16R-042023	Radium-228	-	-	UJ	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-16R-042023	Total Radium	-	-	UJ	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	FD-02-042023	Radium-228	-	-	UJ	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	FD-02-042023	Total Radium	-	-	UJ	MS recovery below QC criteria, MS/MSD RPD above QC criteria
50341961	GAMW-52-042523	Radium-228	-	-	UJ	MS/MSD RPD above QC criteria
50341961	GAMW-52-042523	Total Radium	-	-	UJ	MS/MSD RPD above QC criteria
50341961	GAMW-52B-042523	Radium-228	-	-	J	MS/MSD RPD above QC criteria
50341961	GAMW-52B-042523	Total Radium	-	-	J	MS/MSD RPD above QC criteria
50341961	FD-03-042523	Radium-228	-	-	UJ	MS/MSD RPD above QC criteria
50341961	FD-03-042523	Total Radium	-	-	UJ	MS/MSD RPD above QC criteria
50343391	GAMW-46-042723	pH	-	-	J	Method holding time exceedance
50343391	GAMW-46B-042723	pH	-	-	J	Method holding time exceedance
50343391	GAMW-42-050223	pH	-	-	J	Method holding time exceedance
50343391	GAMW-42B-050223	pH	-	-	J	Method holding time exceedance
50343391	GAMW-42C-050323	pH	-	-	J	Method holding time exceedance
50343391	GAMW-43-050323	pH	-	-	J	Method holding time exceedance
50343391	GAMW-43B-050323	pH	-	-	J	Method holding time exceedance
50343391	FD-05-050323	pH	-	-	J	Method holding time exceedance
50343391	GAMW-44-050424	pH	-	-	J	Method holding time exceedance
50343391	GAMW-44B-050424	pH	-	-	J	Method holding time exceedance
50343391	GAMW-57-050424	pH	-	-	J	Method holding time exceedance
50343391	GAMW-57B-050523	pH	-	-	J	Method holding time exceedance
50343391	GAMW-58-050523	pH	-	-	J	Method holding time exceedance
50343391	GAMW-58B-050523	pH	-	-	J	Method holding time exceedance
50343391	GAMW-44B-050423	Barium	-	-	J+	Field blank contamination
50343391	GAMW-44B-050423	Chromium	0.002	-	U	Field blank contamination
50343391	GAMW-57-050423	Chromium	0.002	-	U	Field blank contamination
50343391	GAMW-57B-050523	Selenium	-	-	UJ	MS/MSD %R below QC limits
50343391	GAMW-58-050523	Selenium	-	-	J-	MS/MSD %R below QC limits
50343391	GAMW-58B-050523	Selenium	-	-	UJ	MS/MSD %R below QC limits
50353874	FD-03-091923	pH	-	-	J	Method holding time exceedance
50353874	FD-04-092123	pH	-	-	J	Method holding time exceedance
50353874	FD-05-092223	pH	-	-	J	Method holding time exceedance
50353874	FD-06-100223	pH	-	-	J	Method holding time exceedance
50353874	GAMW-01-091323	pH	-	-	J	Method holding time exceedance
50353874	GAMW-01B-091323	pH	-	-	J	Method holding time exceedance
50353874	GAMW-03-091523	pH	-	-	J	Method holding time exceedance

TABLE 2

Qualifier Summary Table

NIPSCO CCR Groundwater Monitoring - R. M. Schahfer

SDG	*Sample Name*	*Constituent*	*New Result*	*New RL*	*Qualifier*	*Reason*
50353874	GAMW-03B-091523	pH	-	-	J	Method holding time exceedance
50353874	GAMW-08-091923	pH	-	-	J	Method holding time exceedance
50353874	GAMW-08B-091923	pH	-	-	J	Method holding time exceedance
50353874	GAMW-09-092123	pH	-	-	J	Method holding time exceedance
50353874	GAMW-09B-092123	pH	-	-	J	Method holding time exceedance
50353874	GAMW-12-091523	pH	-	-	J	Method holding time exceedance
50353874	GAMW-12B-091523	pH	-	-	J	Method holding time exceedance
50353874	GAMW-13-091423	pH	-	-	J	Method holding time exceedance
50353874	GAMW-13B-091423	pH	-	-	J	Method holding time exceedance
50353874	GAMW-14-091423	pH	-	-	J	Method holding time exceedance
50353874	GAMW-14B-091423	pH	-	-	J	Method holding time exceedance
50353874	GAMW-16BR-092023	pH	-	-	J	Method holding time exceedance
50353874	GAMW-16R-092023	pH	-	-	J	Method holding time exceedance
50353874	GAMW-17-092023	pH	-	-	J	Method holding time exceedance
50353874	GAMW-17B-100223	pH	-	-	J	Method holding time exceedance
50353874	GAMW-18-092123	pH	-	-	J	Method holding time exceedance
50353874	GAMW-18B-092223	pH	-	-	J	Method holding time exceedance
50353874	GAMW-51-091823	pH	-	-	J	Method holding time exceedance
50353874	GAMW-51B-091923	pH	-	-	J	Method holding time exceedance
50353874	GAMW-52-092523	pH	-	-	J	Method holding time exceedance
50353874	GAMW-52B-092523	pH	-	-	J	Method holding time exceedance
50353874	GAMW-53-092823	pH	-	-	J	Method holding time exceedance
50353874	GAMW-53B-092823	pH	-	-	J	Method holding time exceedance
50353874	GAMW-54-092523	pH	-	-	J	Method holding time exceedance
50353874	GAMW-54B-092523	pH	-	-	J	Method holding time exceedance
50353874	GAMW-55B-092923	pH	-	-	J	Method holding time exceedance
50353874	GAMW-55R-092923	pH	-	-	J	Method holding time exceedance
50353874	GAMW-56-092223	pH	-	-	J	Method holding time exceedance
50353874	GAMW-56B-092523	pH	-	-	J	Method holding time exceedance
50353874	GAMW-59-091923	pH	-	-	J	Method holding time exceedance
50353874	GAMW-59B-092023	pH	-	-	J	Method holding time exceedance
50353874	GAMW-60-091923	pH	-	-	J	Method holding time exceedance
50353874	GAMW-60B-091923	pH	-	-	J	Method holding time exceedance
50353874	GAMW-68-100223	pH	-	-	J	Method holding time exceedance
50353874	GAMW-68B-100223	pH	-	-	J	Method holding time exceedance
50353874	FD-06-100223	Lead	0.001	-	U	Field blank contamination
50353874	GAMW-17B-100223	Lead	0.001	-	U	Field blank contamination
50353874	GAMW-52B-092523	Lead	0.001	-	U	Field blank contamination
50353874	GAMW-54-092523	Lead	0.001	-	U	Field blank contamination
50353874	GAMW-54B-092523	Lead	0.001	-	U	Field blank contamination
50353874	GAMW-68-100223	Lead	0.001	-	U	Field blank contamination
50353874	GAMW-68B-100223	Lead	0.001	-	U	Field blank contamination
50353874	FD-03-091923	Chromium	0.002	-	U	Field blank contamination
50353874	FD-04-092123	Chromium	0.002	-	U	Field blank contamination
50353874	FD-06-100223	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-08-091923	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-08B-091923	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-09-092123	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-09B-092123	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-17B-100223	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-18-092123	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-51B-091923	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-52-092523	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-52B-092523	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-54-092523	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-54B-092523	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-56B-092523	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-59-091923	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-60-091923	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-60B-091923	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-68-100223	Chromium	0.002	-	U	Field blank contamination

TABLE 2

Qualifier Summary Table
NIPSCO CCR Groundwater Monitoring - R. M. Schahfer

SDG	*Sample Name*	*Constituent*	*New Result*	*New RL*	*Qualifier*	*Reason*
50353874	GAMW-68B-100223	Chromium	0.002	-	U	Field blank contamination
50353874	GAMW-52B-092523	Boron	0.1	-	U	Field blank contamination
50353853	GAMW-55B-092923	Radium-228	-	-	U	Method blank contamination
50353853	GAMW-17B-100223	Radium-228	-	-	U	Method blank contamination
50353853	GAMW-17B-100223	Total Radium	-	-	U	Method blank contamination
50353853	GAMW-68B-100223	Radium-228	-	-	U	Method blank contamination
50353853	GAMW-13-091423	Radium-228	-	-	J	MS/MSD RPD above QC criteria
50353853	GAMW-13-091423	Total Radium	-	-	J	MS/MSD RPD above QC criteria
50353853	GAMW-14-091423	Radium-228	-	-	J	MS/MSD RPD above QC criteria
50353853	GAMW-14B-091423	Radium-228	-	-	J	MS/MSD RPD above QC criteria
50353853	GAMW-13B-091423	Radium-228	-	-	J	MS/MSD RPD above QC criteria
50353853	GAMW-14-091423	Total Radium	-	-	UJ	MS/MSD RPD above QC criteria
50353853	GAMW-14B-091423	Total Radium	-	-	J	MS/MSD RPD above QC criteria
50353853	GAMW-13B-091423	Total Radium	-	-	J	MS/MSD RPD above QC criteria
50355350	GAMW-46-100323	pH	-	-	J	Method holding time exceedance
50355350	GAMW-46B-100423	pH	-	-	J	Method holding time exceedance
50355350	GAMW-42-100423	pH	-	-	J	Method holding time exceedance
50355350	GAMW-42B-100423	pH	-	-	J	Method holding time exceedance
50355350	GAMW-42C-100923	pH	-	-	J	Method holding time exceedance
50355350	GAMW-43-100923	pH	-	-	J	Method holding time exceedance
50355350	GAMW-43B-100923	pH	-	-	J	Method holding time exceedance
50355350	FD-07-100923	pH	-	-	J	Method holding time exceedance
50355350	GAMW-44-101023	pH	-	-	J	Method holding time exceedance
50355350	GAMW-44B-101023	pH	-	-	J	Method holding time exceedance
50355350	GAMW-57-101023	pH	-	-	J	Method holding time exceedance
50355350	GAMW-57B-101123	pH	-	-	J	Method holding time exceedance
50355350	GAMW-58-101123	pH	-	-	J	Method holding time exceedance
50355350	GAMW-58B-101123	pH	-	-	J	Method holding time exceedance
50355350	GAMW-44-101023	Chromium	0.002	-	U	Field blank contamination
50355350	GAMW-44B-101023	Chromium	0.002	-	U	Field blank contamination
50355350	GAMW-57-101023	Chromium	0.002	-	U	Field blank contamination
50355352	GAMW-43B-100923	Radium-226	-	-	J	Field duplicate RPD greater than acceptance criteria
50355352	FD-07-100923	Radium-226	-	-	UJ	Field duplicate RPD greater than acceptance criteria
50359626	GAMW-77-111323	pH	-	-	J	Method holding time exceedance
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.

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

Abbreviations:

RL: Reporting Limit

QC: Quality Control

MDL: method detection limit

MS/MSD: Matrix spike/matrix spike duplicate

%R: Percent recovery

QC: Quality control

RPD: Relative percent difference

Qualifier Definitions:

J: Estimated Result

J+: Estimated and potentially biased high

J-: Estimated and potentially biased low

U: Non-detect Result

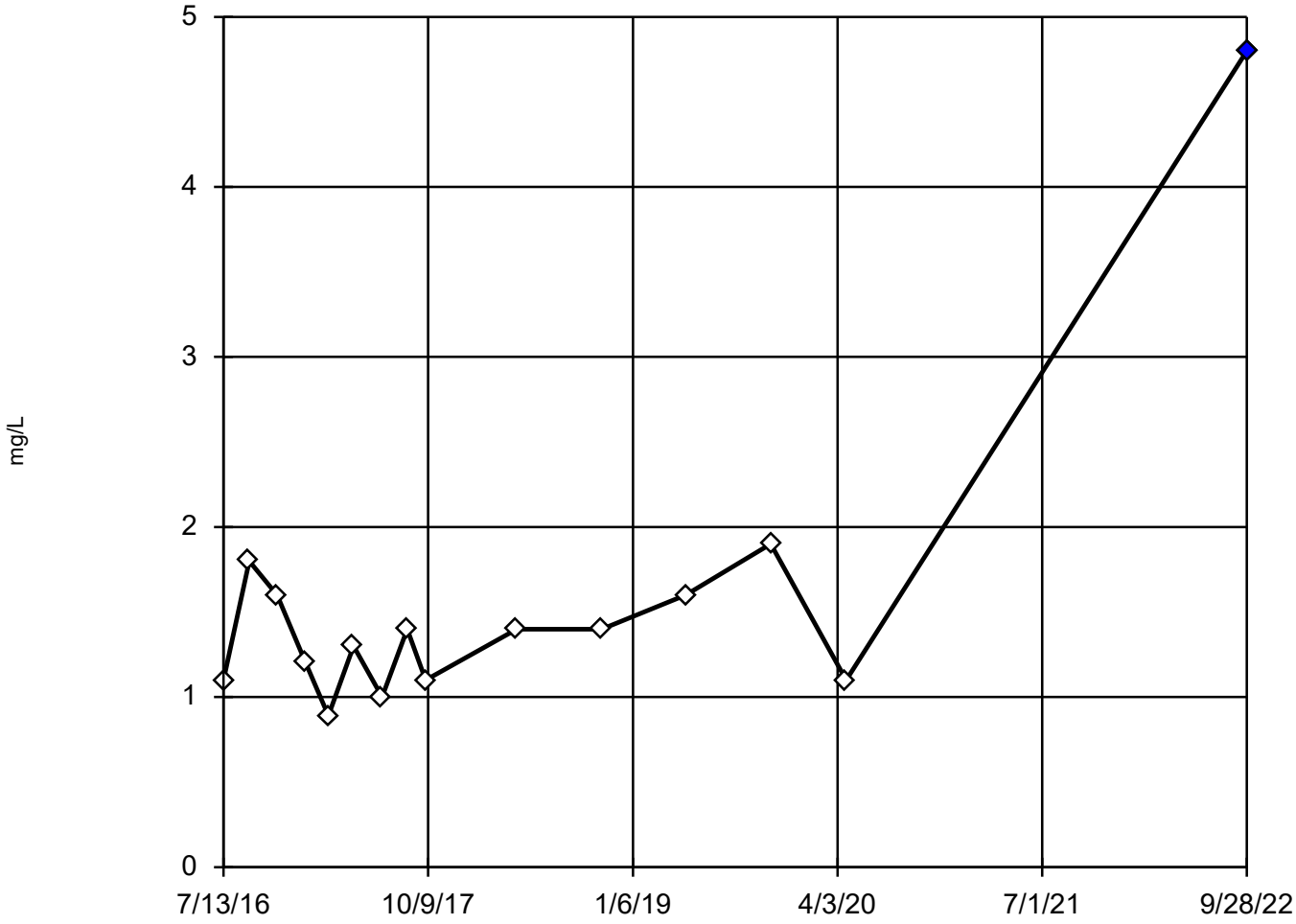
UJ: Estimated and non-detect

APPENDIX D

2023 Statistical Analysis

Dixon's Outlier Test

GAMW16R



n = 15

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 1.573.
Std. Dev. = 0.939.
4.8: c = 0.8108
tabl = 0.525.
Alpha = 0.05.

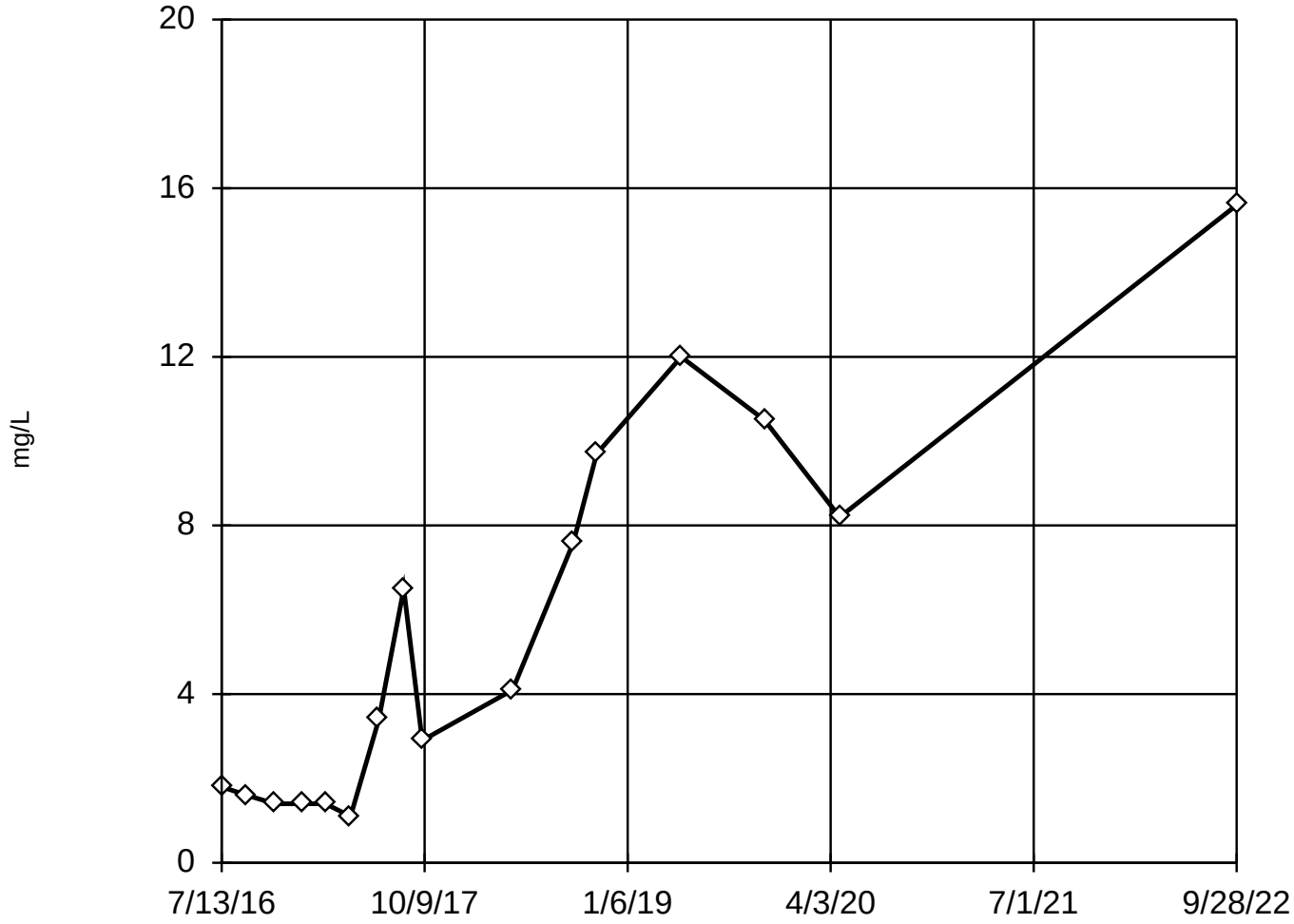
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.955
Critical = 0.874
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Boron Analysis Run 2/6/2023 11:31 AM View: Multi-Unit

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

EPA 1989 Outlier Screening

GAMW16BR



n = 16

No statistical outliers.
Mean 5.575, std. dev. 4.556, critical Tn 2.443

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9047
Critical = 0.887 (after natural log transformation)
The distribution was found to be log-normal.

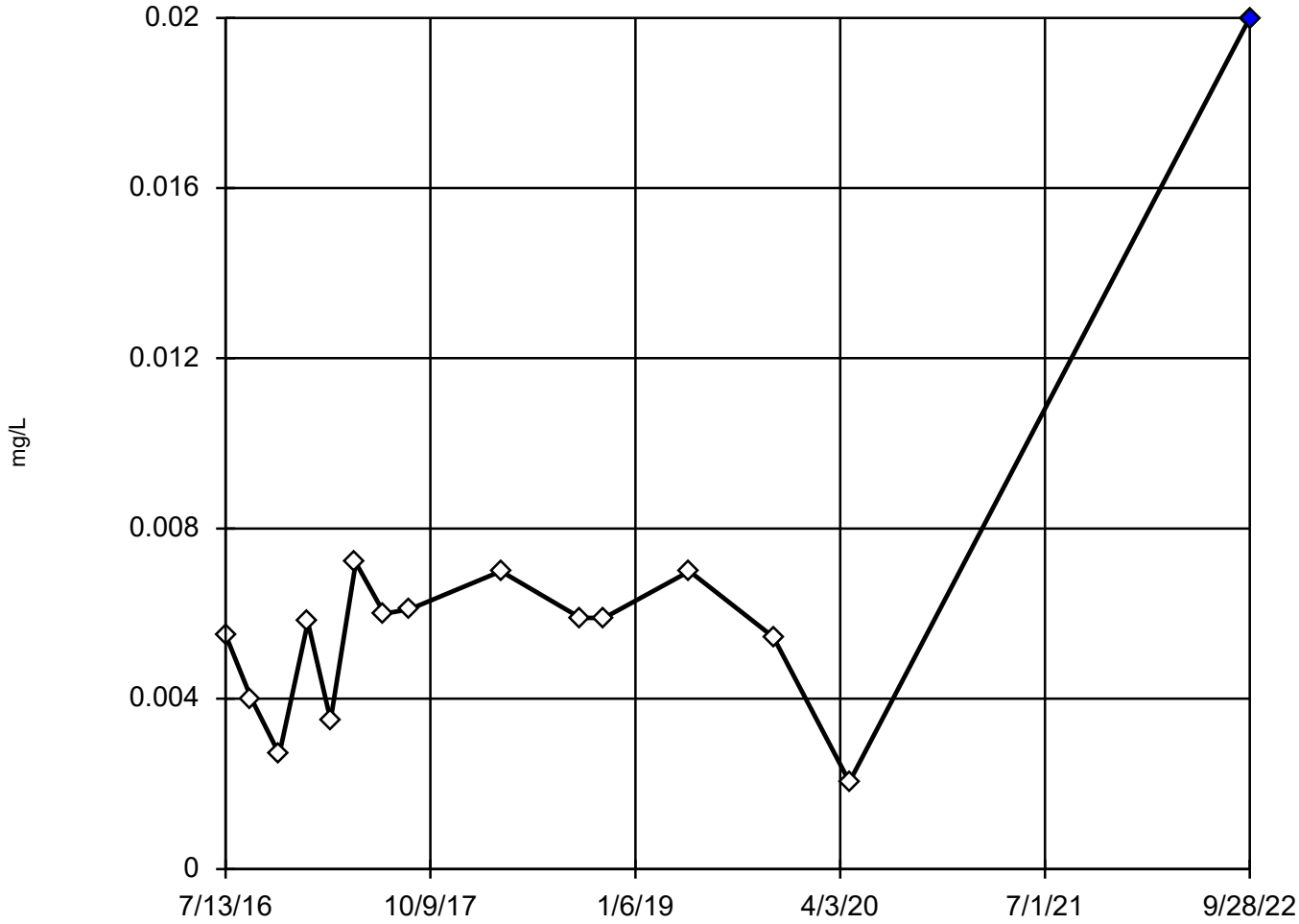
Constituent: Boron Analysis Run 1/25/2024 1:22 PM View: Landfill 2023

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080223 - Copy

Sanitas™ v.9.6.35 Software licensed to WSP USA Inc. EPA

Dixon's Outlier Test

GAMW16BR



n = 15

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 0.006273.
Std. Dev. = 0.004103.
0.02: c = 0.7879
tabl = 0.525.
Alpha = 0.05.

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.8852
Critical = 0.874
The distribution, after removal of suspect value, was found to be normally distributed.

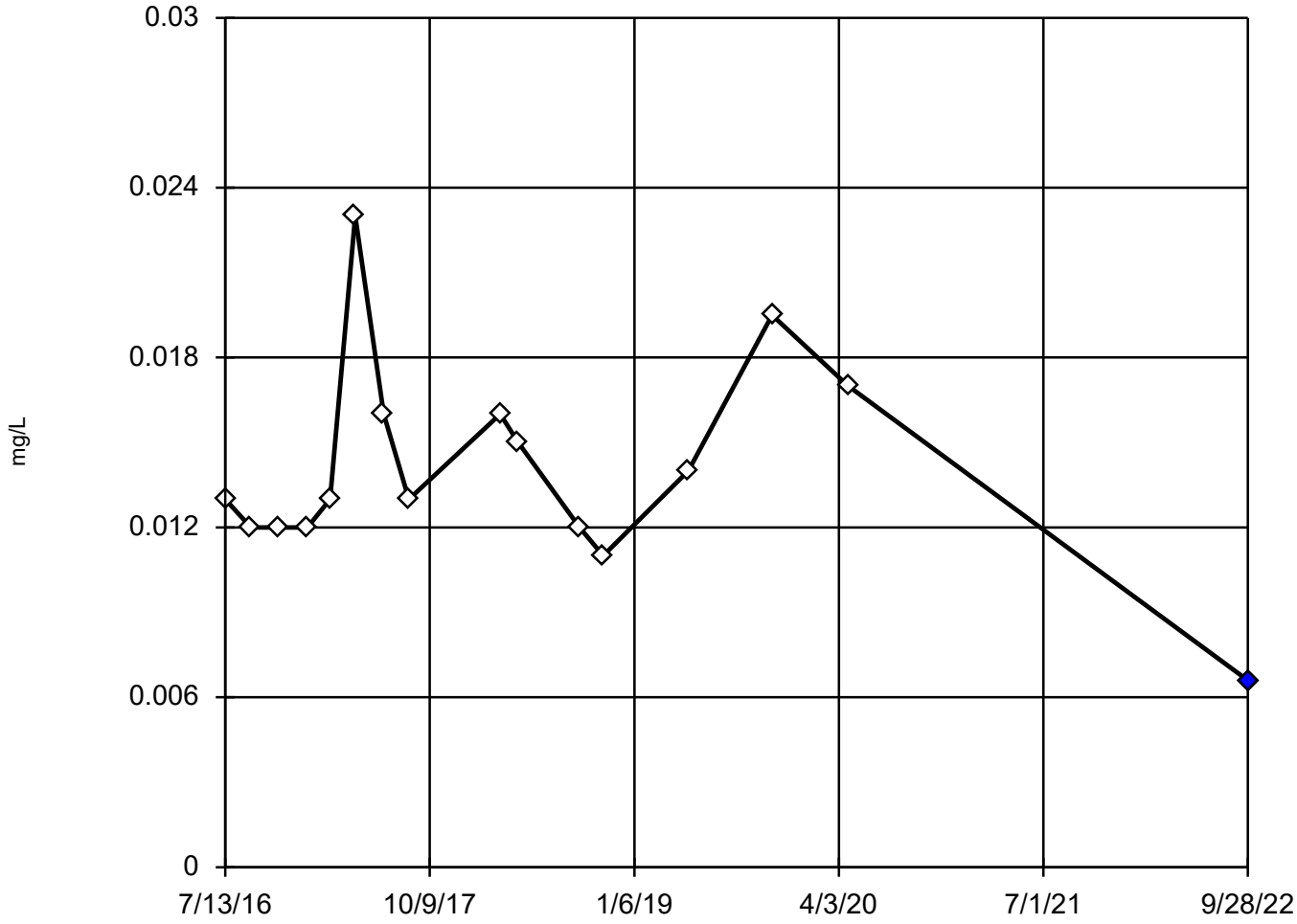
Constituent: Lithium Analysis Run 2/6/2023 11:34 AM View: Multi-Unit

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Sanitas™ v.9.6.35 Software licensed to WSP USA Inc. EPA

Dixon's Outlier Test

GAMW16BR



n = 16

Statistical outlier is drawn as solid.
Testing for 1 low outlier.
Mean = 0.01407.
Std. Dev. = 0.003759.
-5.021: c = 0.6319
tabl = 0.507.
Alpha = 0.05.

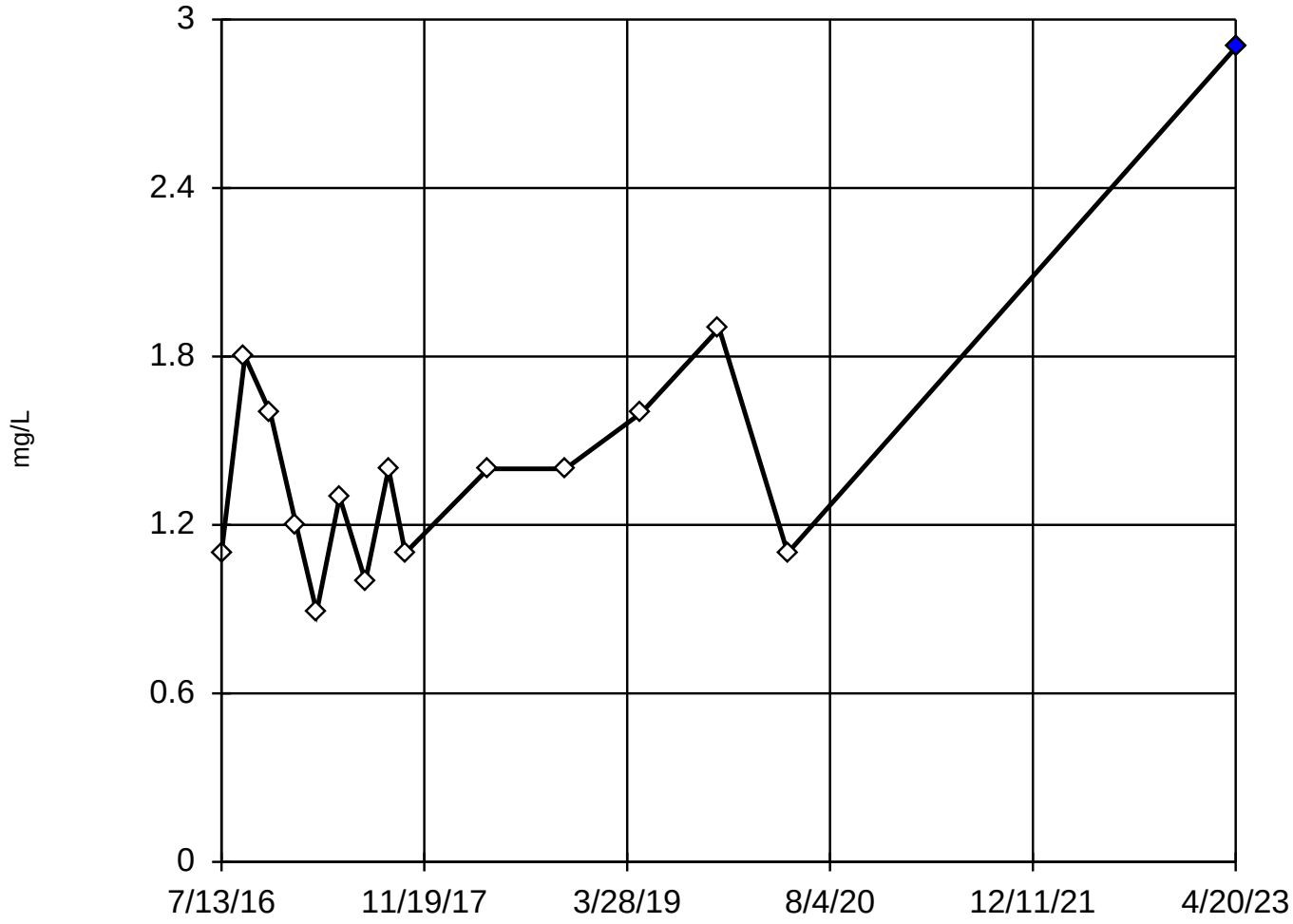
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9045
Critical = 0.881 (after natural log transformation)
The distribution, after removal of suspect value, was found to be log-normal.

Constituent: Molybdenum Analysis Run 2/6/2023 11:34 AM View: Multi-Unit

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

EPA 1989 Outlier Screening

GAMW16R



n = 15

Statistical outlier is drawn as solid.
Mean 1.446, std. dev. 0.4963, critical Tn 2.409.
After removing suspect data: mean 1.342, std. dev. 0.3017, Tn 2.371.

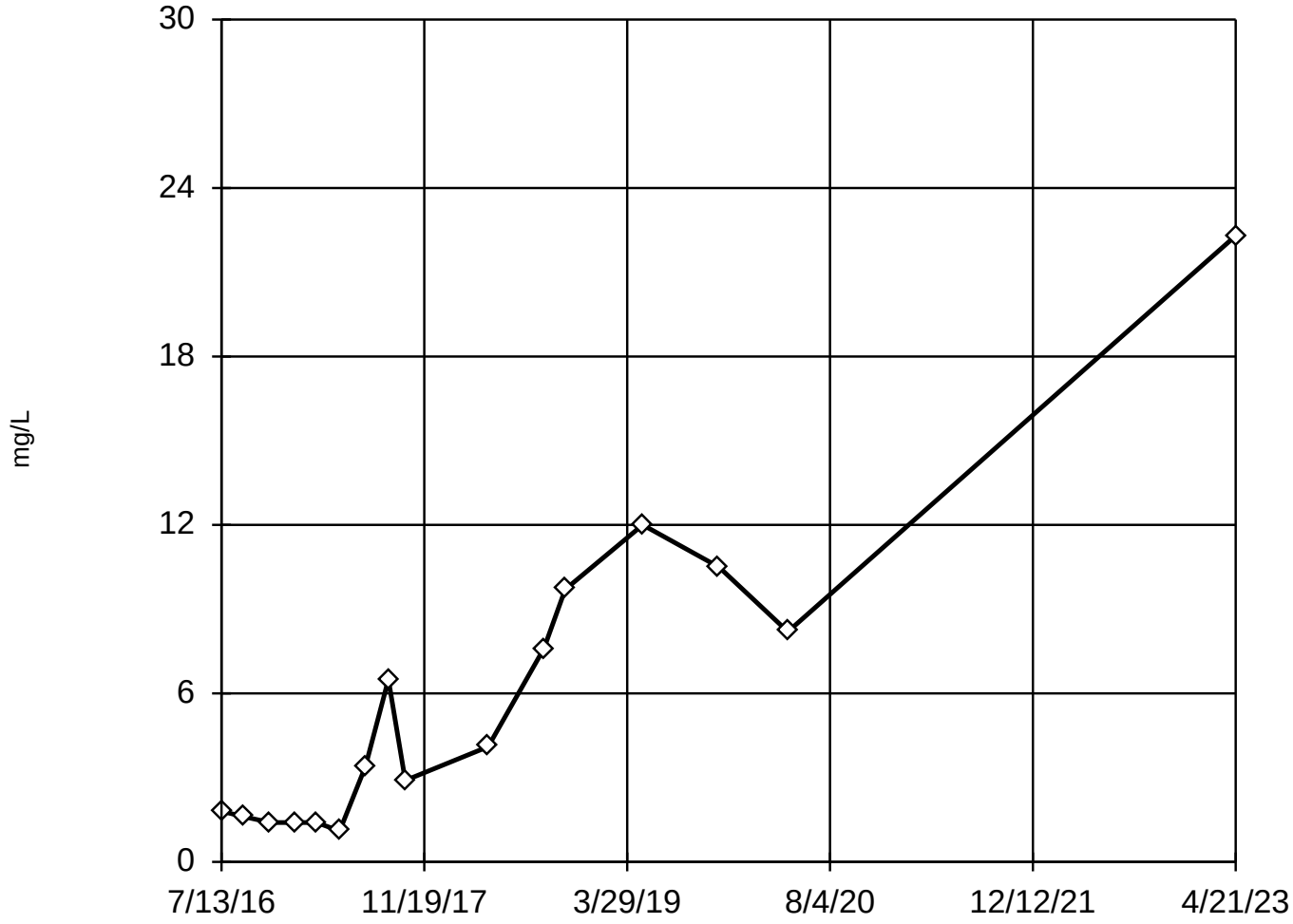
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.955
Critical = 0.874
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Boron Analysis Run 8/2/2023 10:30 AM View: MCU

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

EPA 1989 Outlier Screening

GAMW16BR



n = 16

No statistical outliers.
Mean 5.994, std. dev. 5.702, critical Tn 2.443

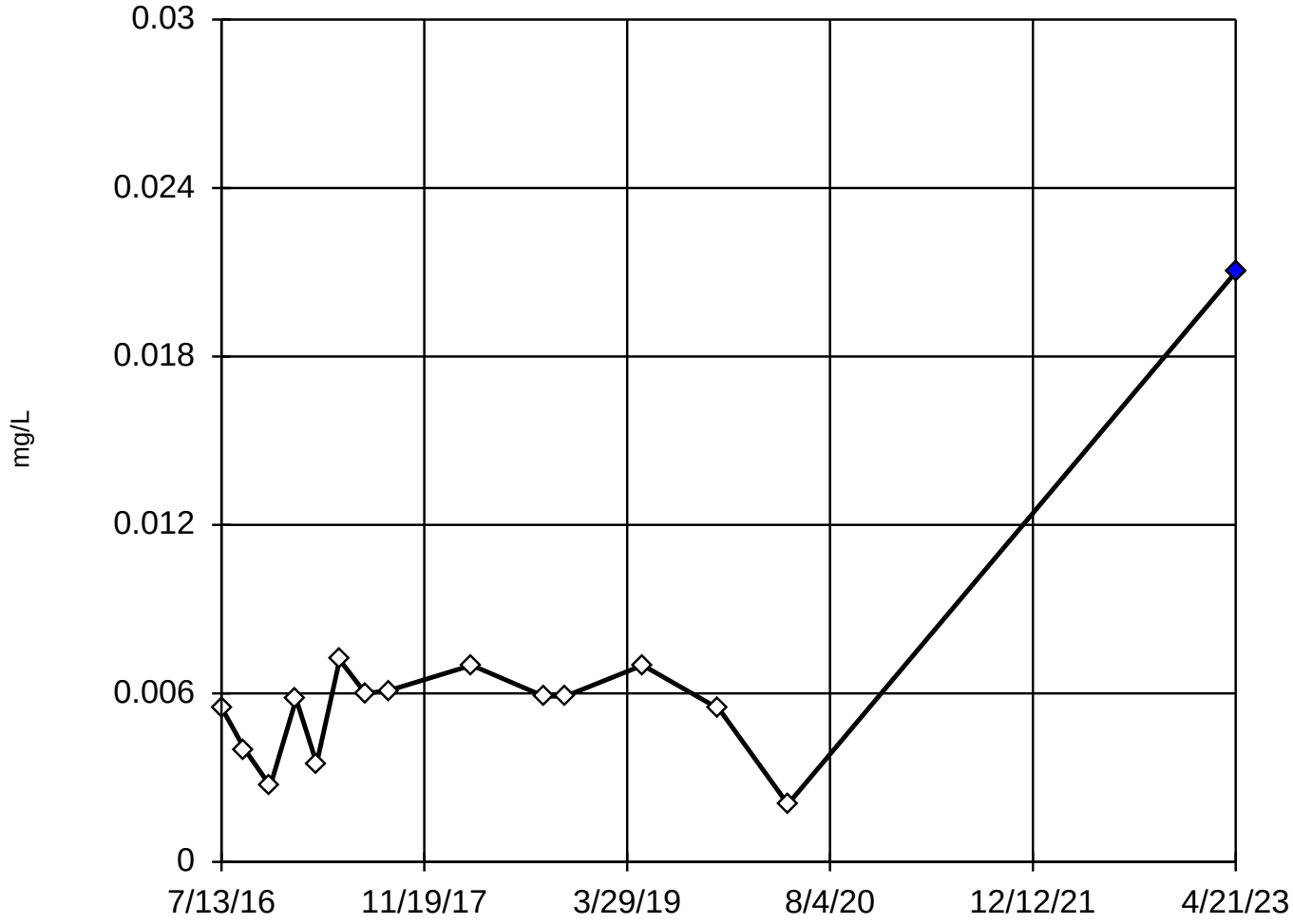
Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.9224
Critical = 0.887 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Boron Analysis Run 1/25/2024 1:26 PM View: Landfill 2023

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080223 - Copy

EPA 1989 Outlier Screening

GAMW16BR



n = 15

Statistical outlier is drawn as solid.
Mean 0.00634, std. dev. 0.004343, critical Tn 2.409. After removing suspect data: mean 0.005293, std. dev. 0.001613, Tn 2.371.

Normality test used:
Shapiro Wilk@alpha = 0.05
Calculated = 0.8852
Critical = 0.874
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Lithium Analysis Run 8/2/2023 10:32 AM View: MCU

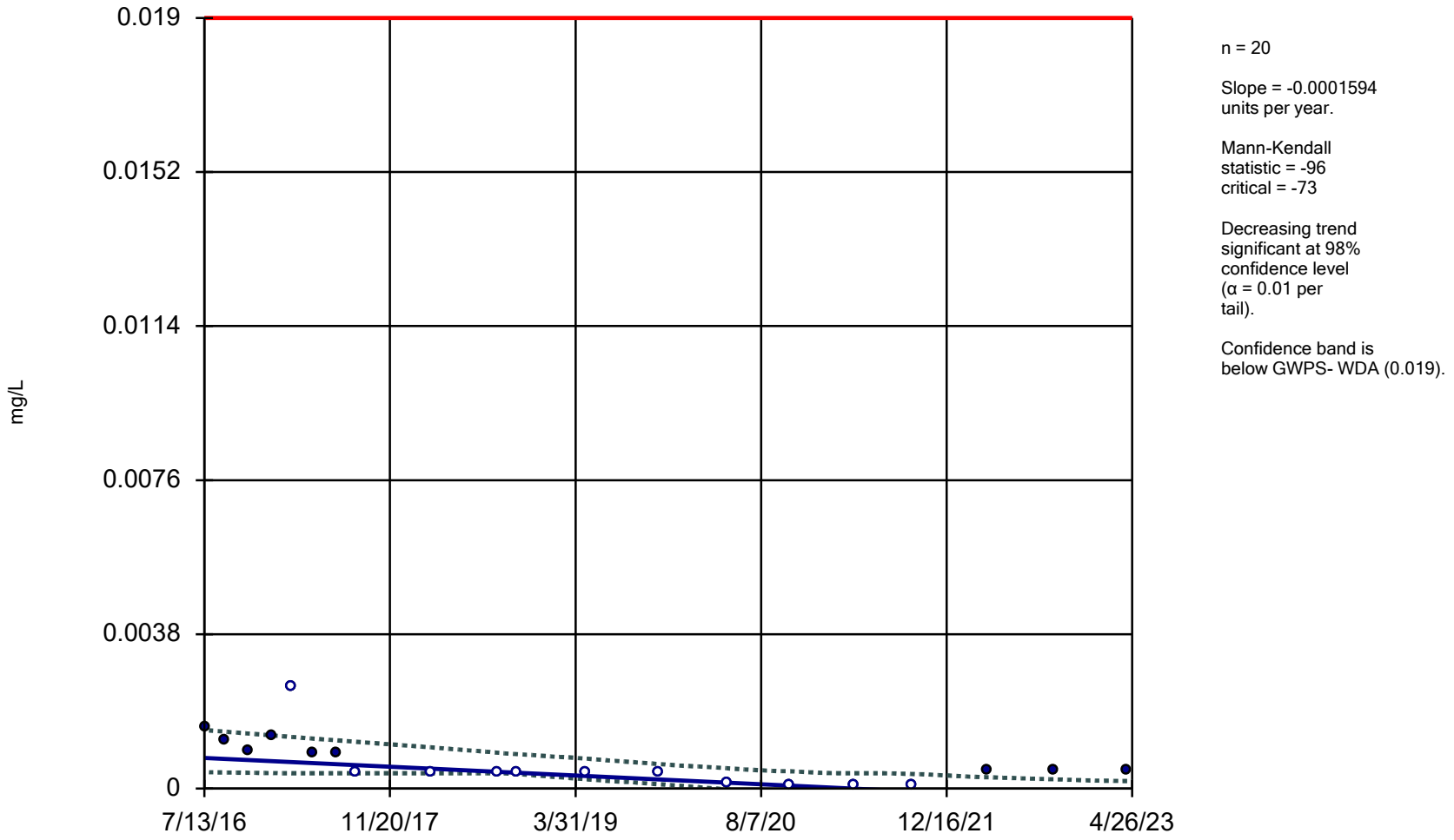
R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

GAMW03B (bg)



n = 20

Slope = -0.0001594 units per year.

Mann-Kendall statistic = -96
critical = -73

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below GWPS- WDA (0.019).

Constituent: Arsenic Analysis Run 8/2/2023 11:04 AM View: CCR Assessment Background Wells

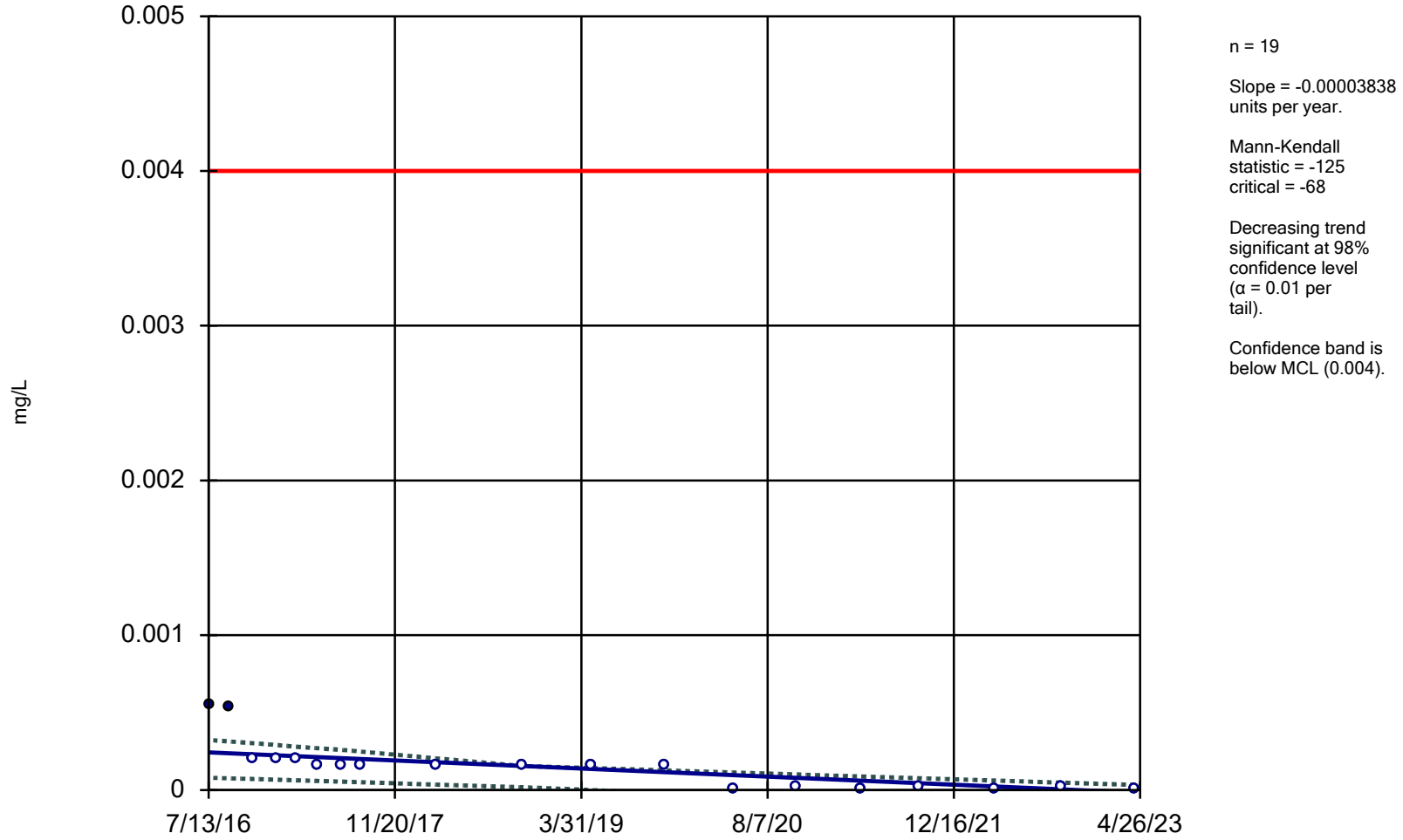
R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

GAMW03 (bg)



n = 19

Slope = -0.00003838 units per year.

Mann-Kendall statistic = -125 critical = -68

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below MCL (0.004).

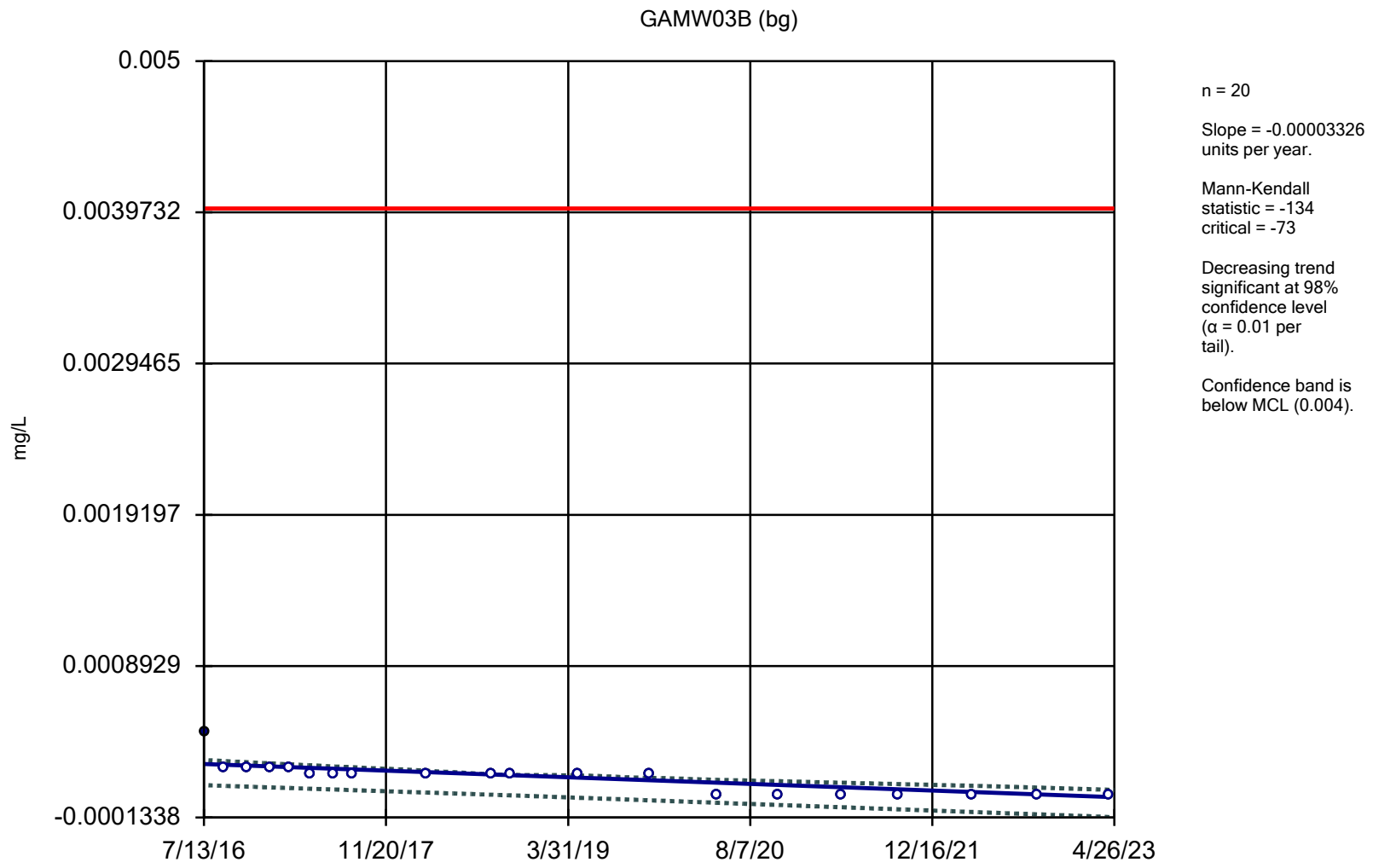
Constituent: Beryllium Analysis Run 8/2/2023 11:04 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



Constituent: Beryllium Analysis Run 8/2/2023 11:04 AM View: CCR Assessment Background Wells

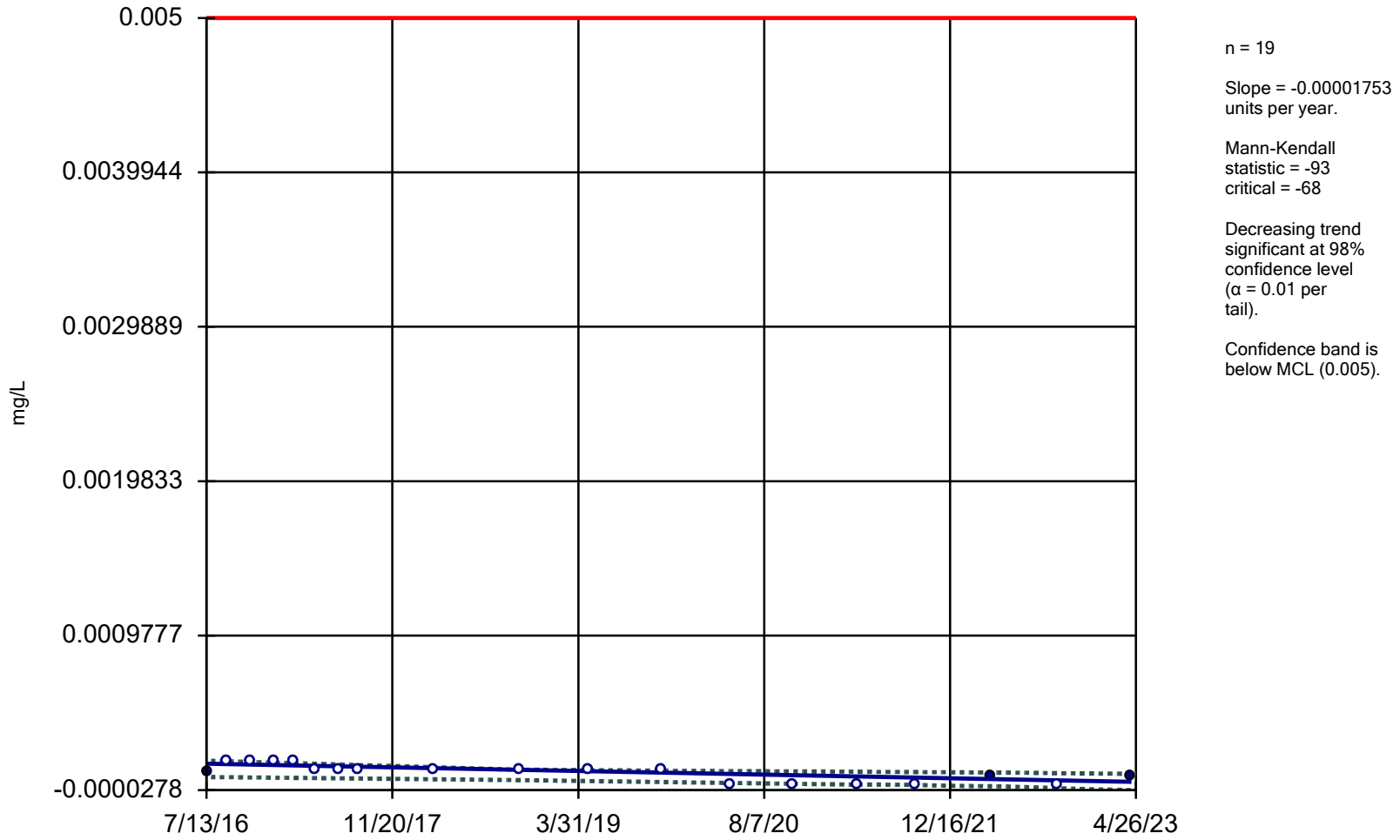
R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

GAMW03 (bg)



n = 19

Slope = -0.00001753 units per year.

Mann-Kendall statistic = -93
critical = -68

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below MCL (0.005).

Constituent: Cadmium Analysis Run 8/2/2023 11:04 AM View: CCR Assessment Background Wells

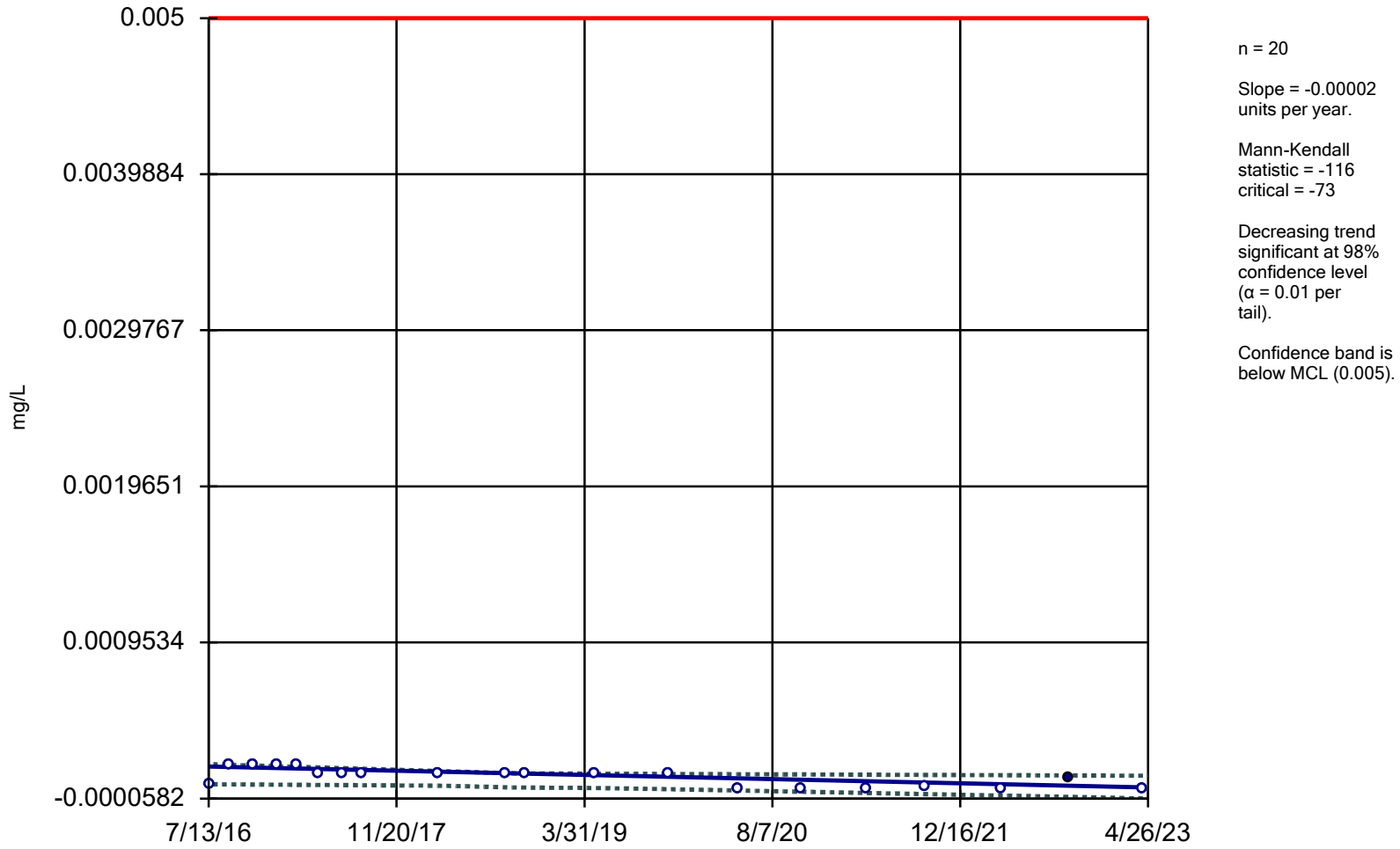
R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

GAMW03B (bg)



n = 20

Slope = -0.00002 units per year.

Mann-Kendall statistic = -116
critical = -73

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below MCL (0.005).

Constituent: Cadmium Analysis Run 8/2/2023 11:04 AM View: CCR Assessment Background Wells

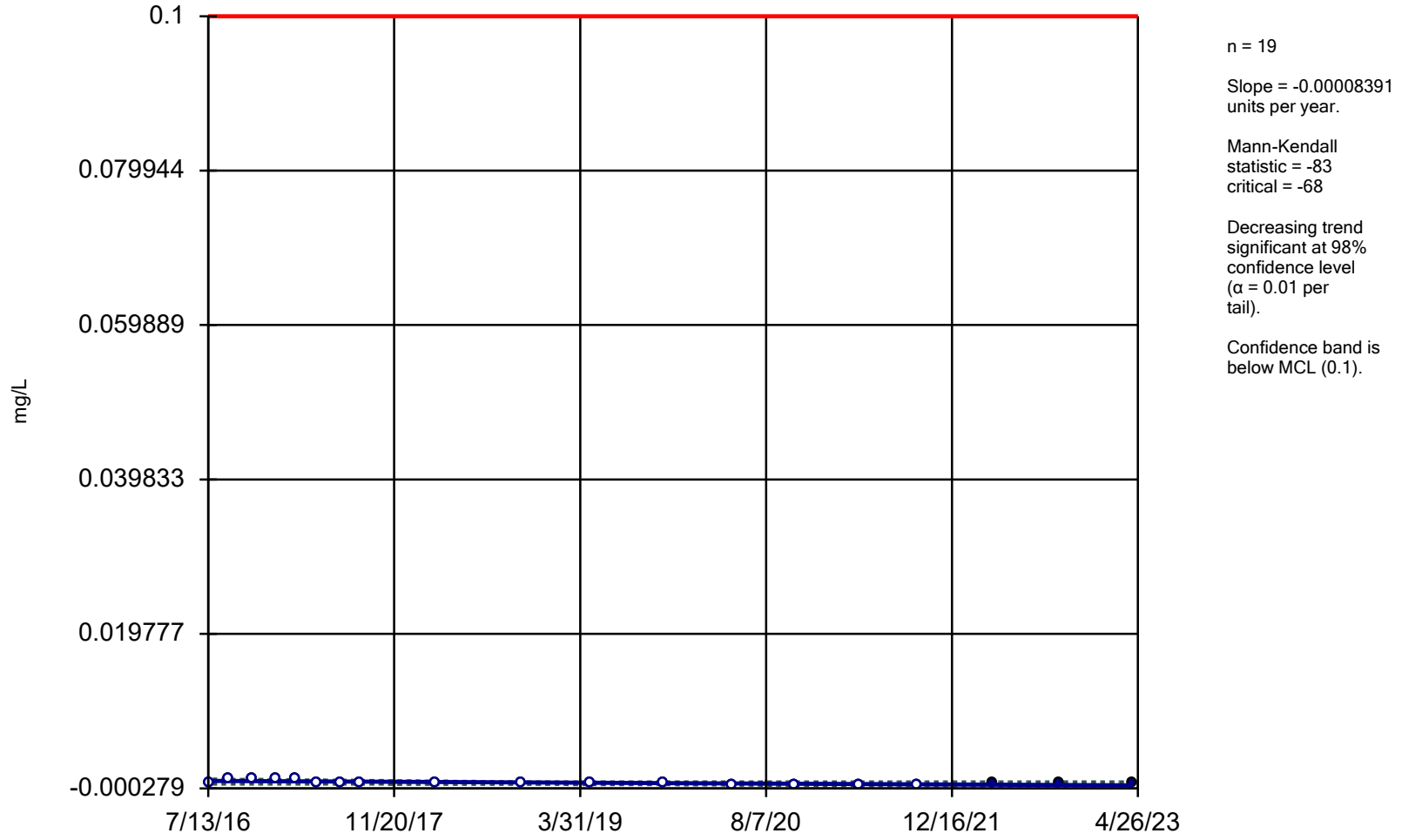
R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

GAMW03 (bg)



n = 19

Slope = -0.00008391 units per year.

Mann-Kendall statistic = -83
critical = -68

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below MCL (0.1).

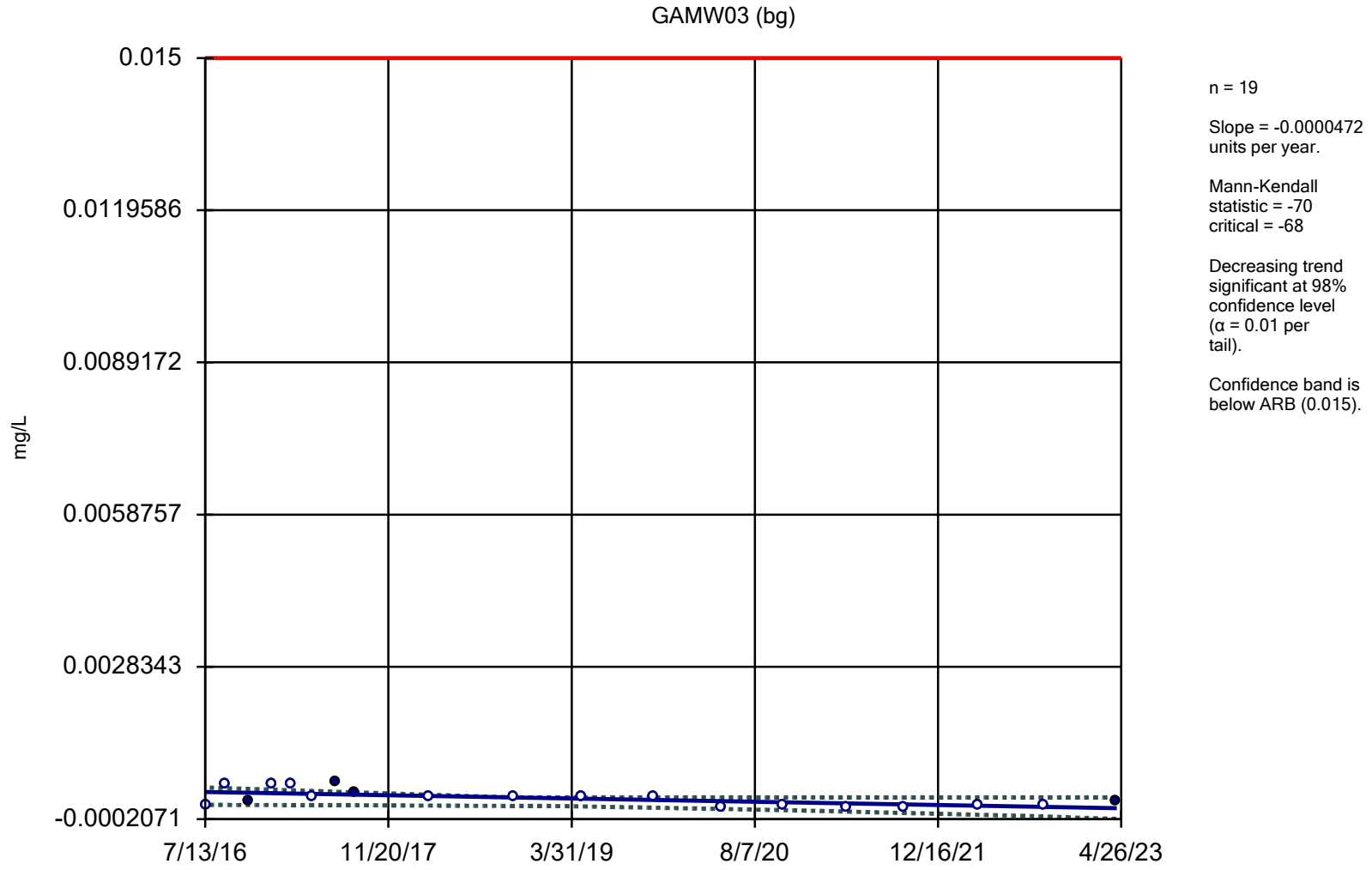
Constituent: Chromium Analysis Run 8/2/2023 11:05 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



Constituent: Lead Analysis Run 8/2/2023 11:05 AM View: CCR Assessment Background Wells

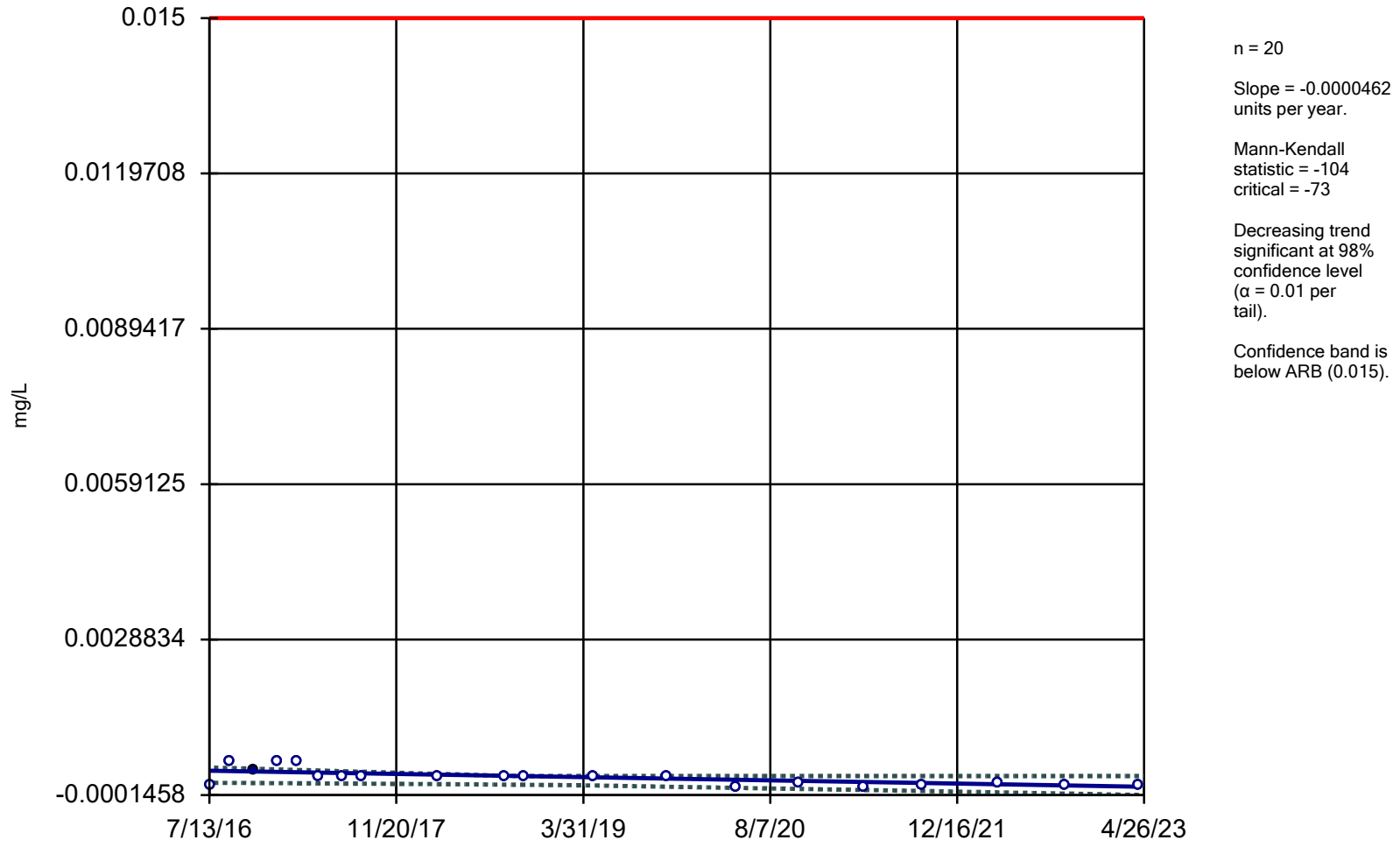
R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

GAMW03B (bg)



n = 20

Slope = -0.0000462 units per year.

Mann-Kendall statistic = -104
critical = -73

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below ARB (0.015).

Constituent: Lead Analysis Run 8/2/2023 11:05 AM View: CCR Assessment Background Wells

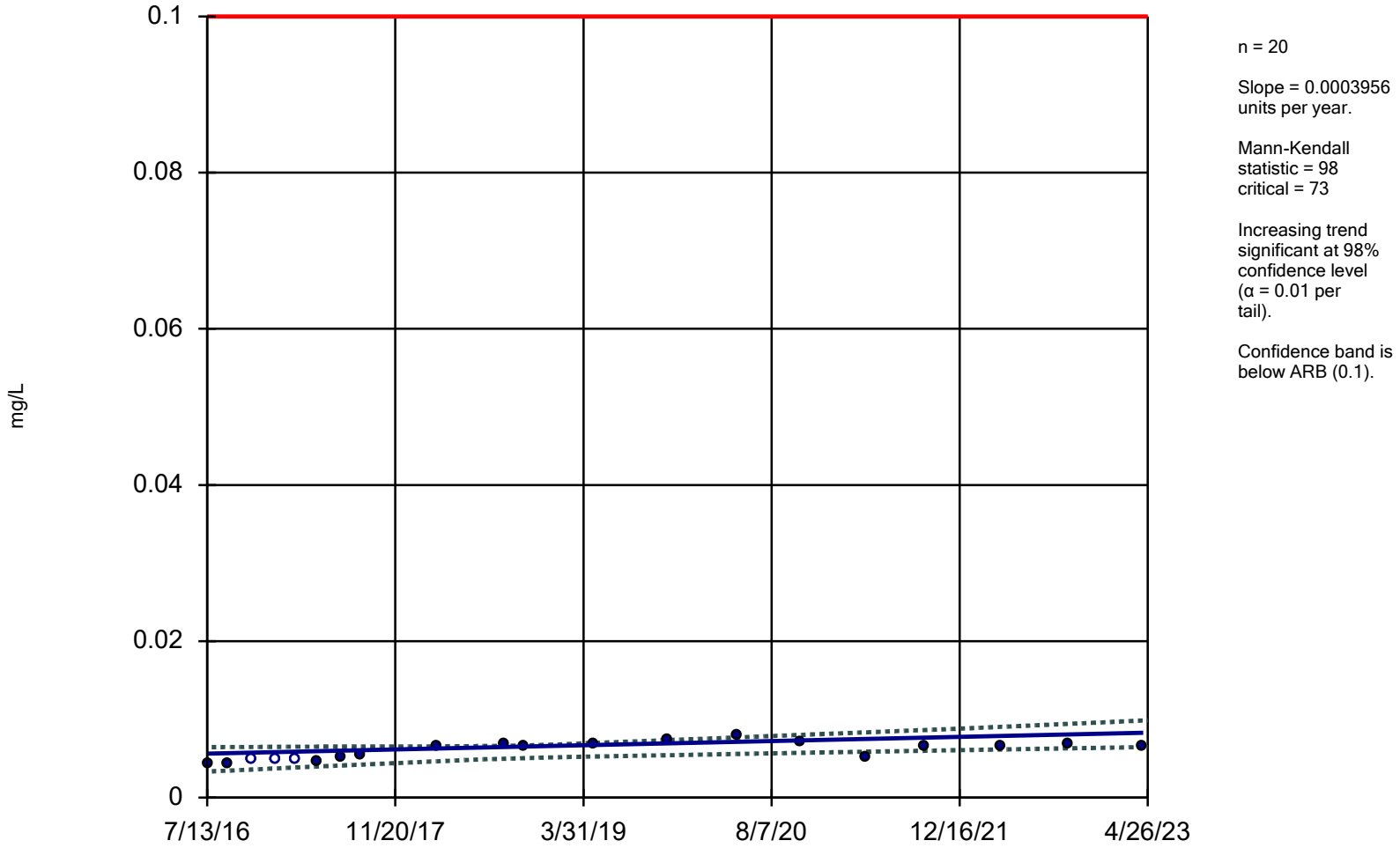
R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

GAMW03B (bg)



n = 20

Slope = 0.0003956 units per year.

Mann-Kendall statistic = 98
critical = 73

Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band is below ARB (0.1).

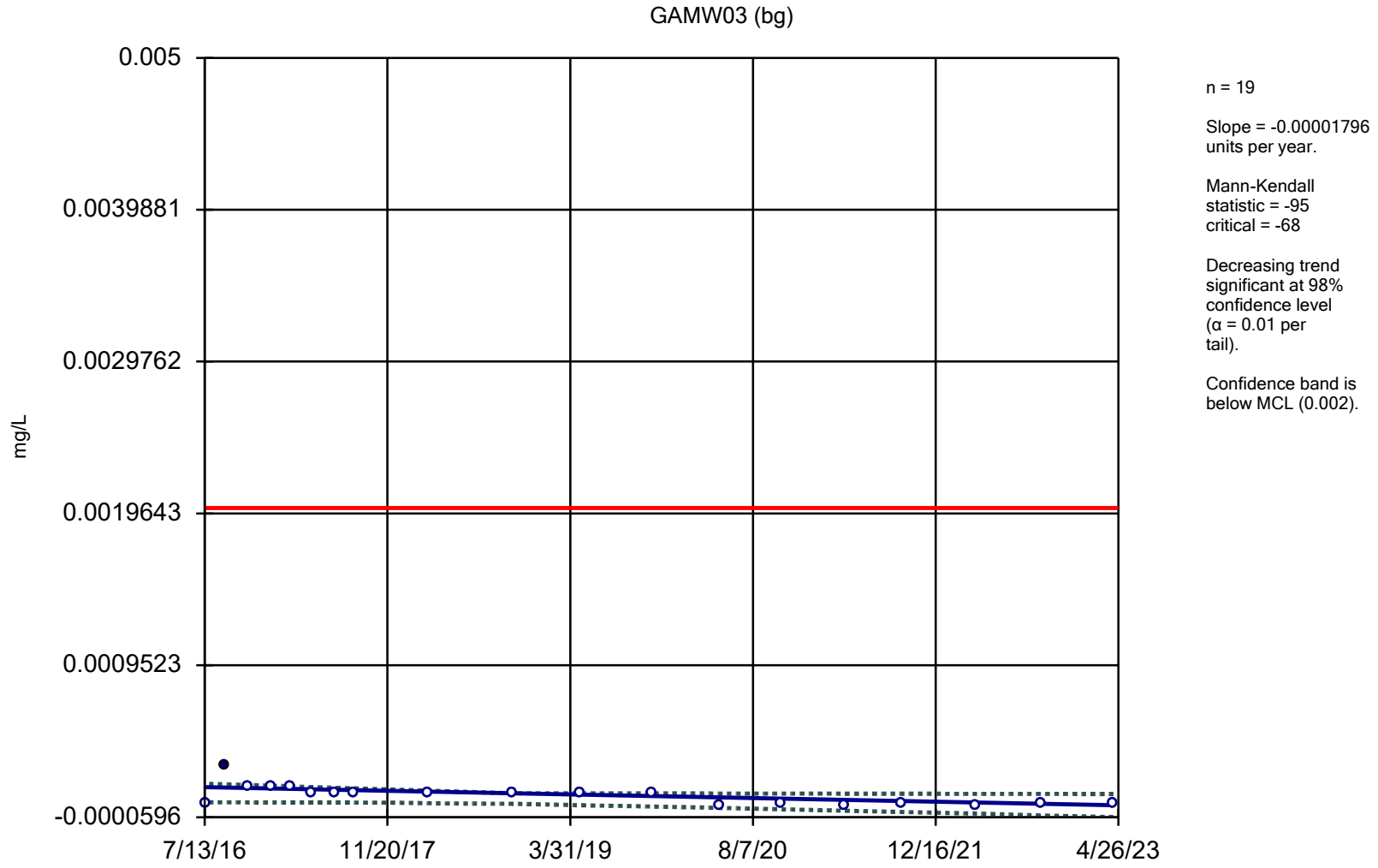
Constituent: Molybdenum Analysis Run 8/2/2023 11:05 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band



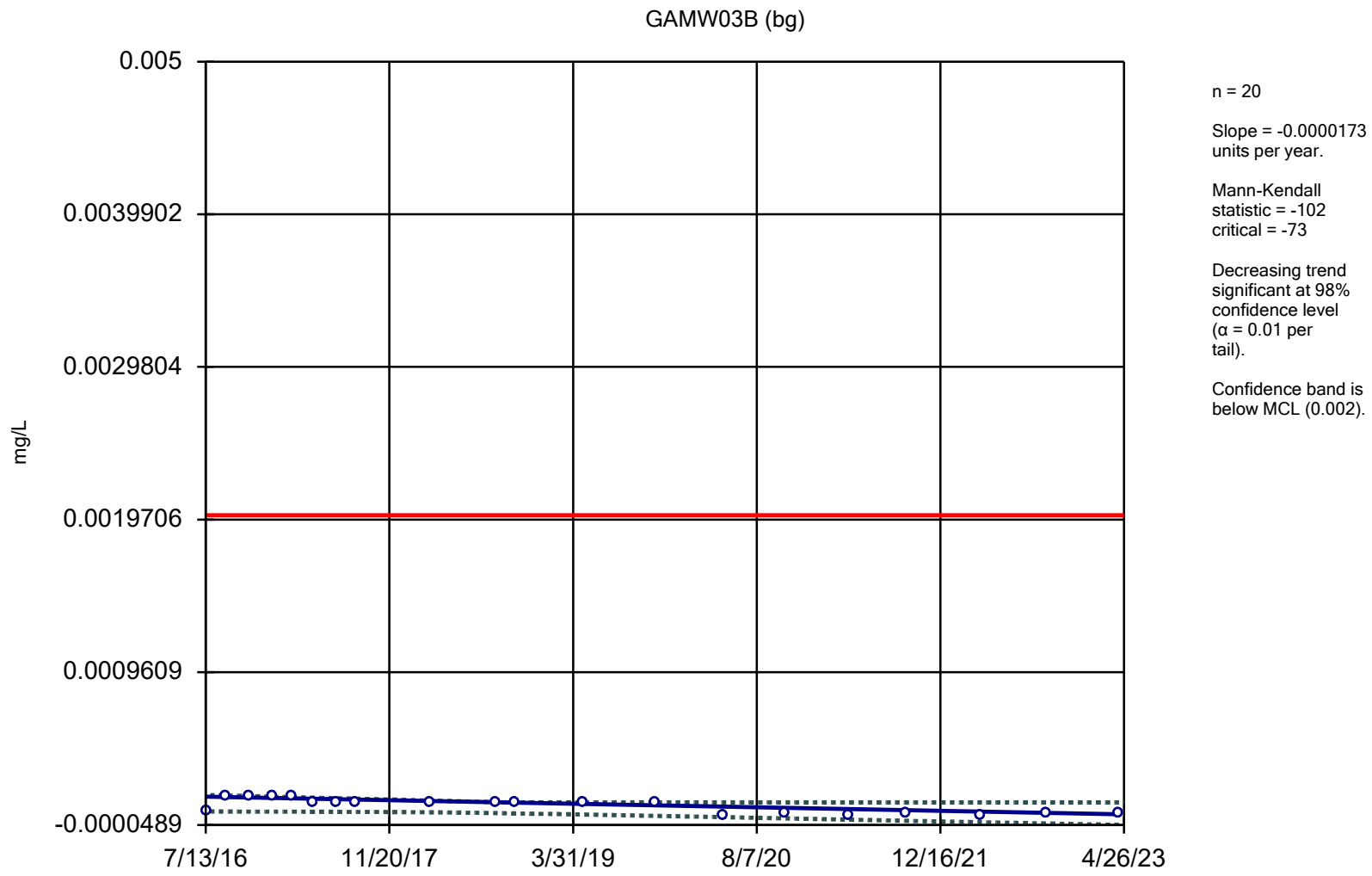
Constituent: Thallium Analysis Run 8/2/2023 11:05 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Hollow symbols indicate censored values.

Sen's Slope and 95% Confidence Band

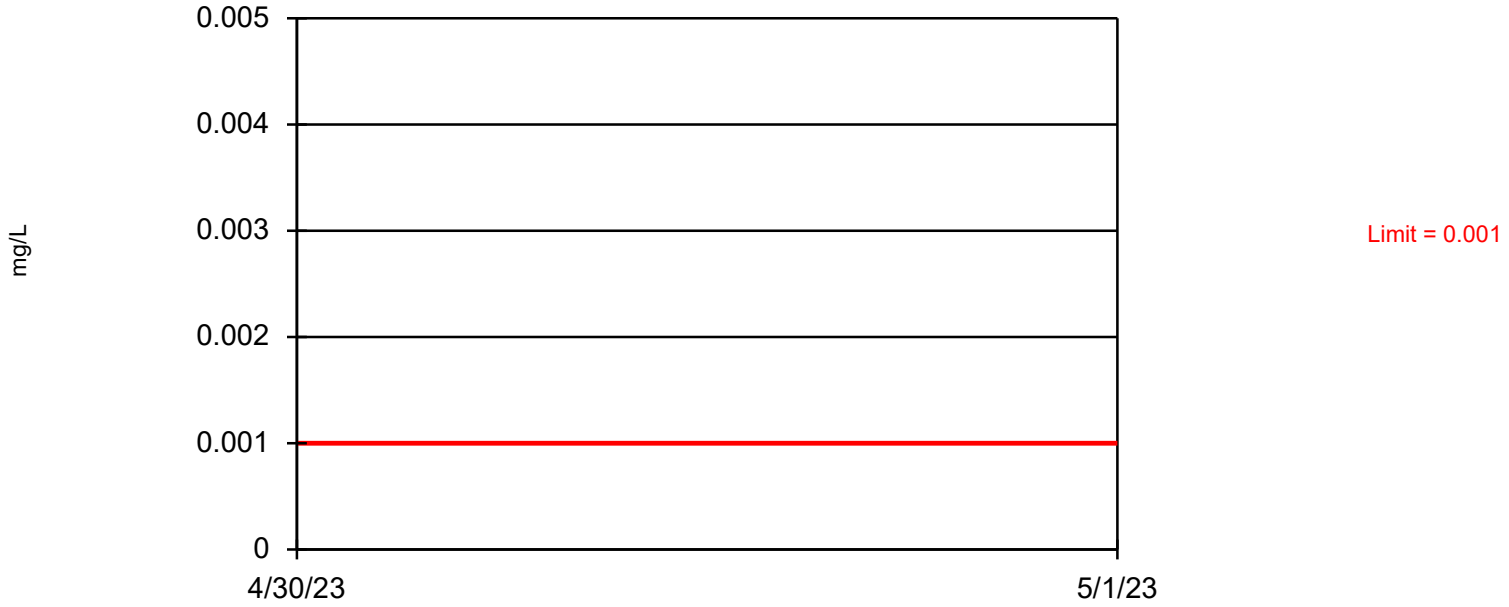


Constituent: Thallium Analysis Run 8/2/2023 11:05 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 84.31% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

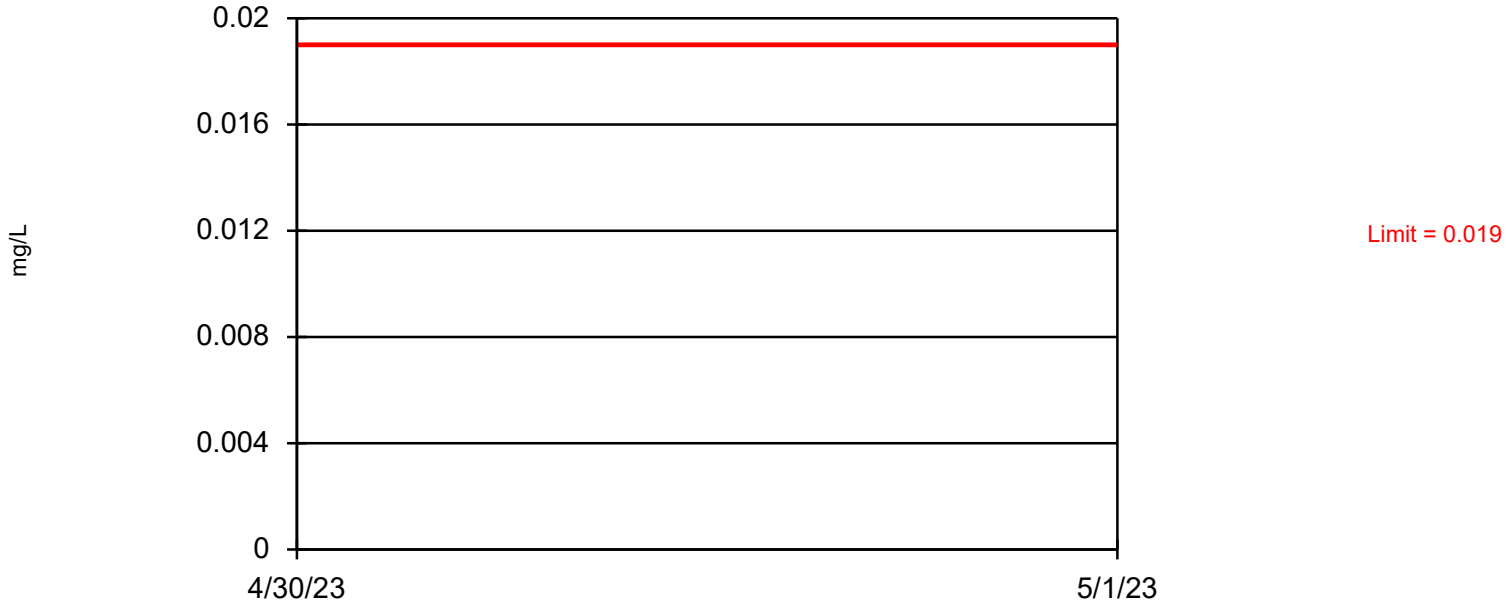
Constituent: Antimony Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Sanitas™ v.9.6.37 Software licensed to WSP USA Inc. EPA

Tolerance Limit

Interwell Non-parametric



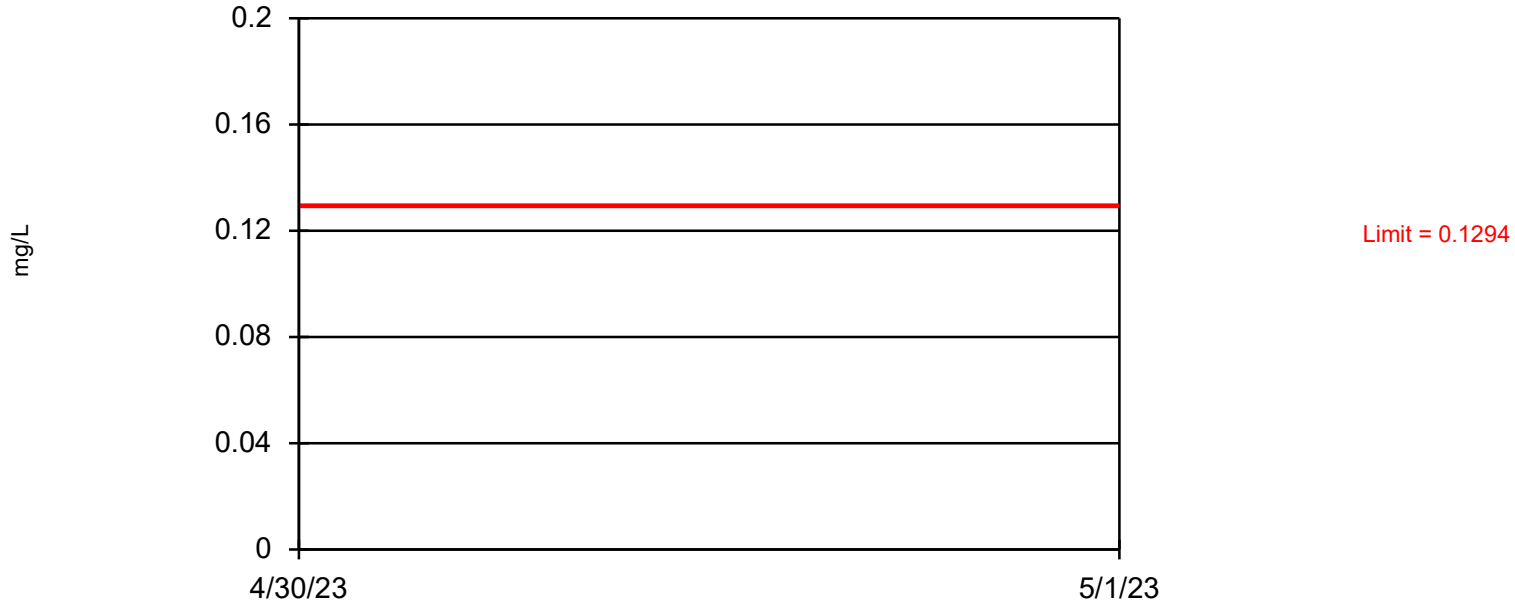
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 51 background values. 33.33% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Arsenic Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Parametric



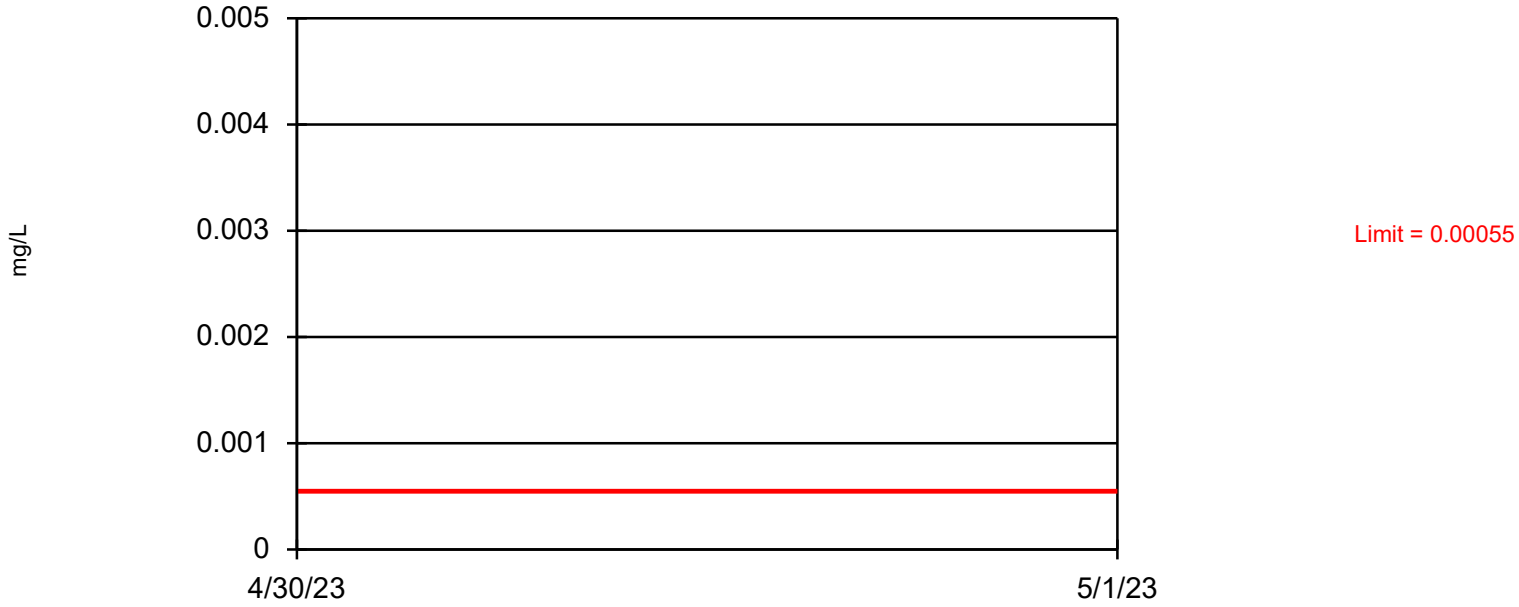
95% coverage. Background Data Summary: Mean=0.09839, Std. Dev.=0.01507, n=51. Normality test: Shapiro Francia @alpha = 0.05, calculated = 0.9589, critical = 0.954. Report alpha = 0.05.

Constituent: Barium Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



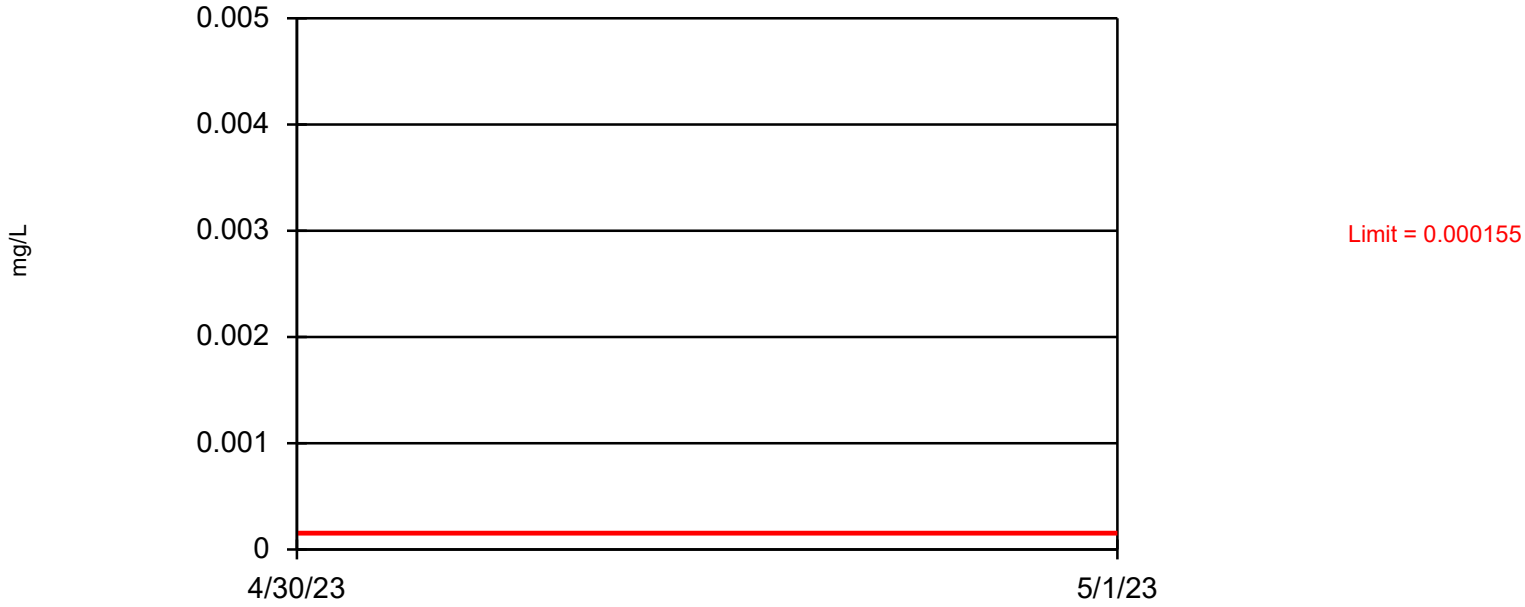
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 94.12% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Beryllium Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



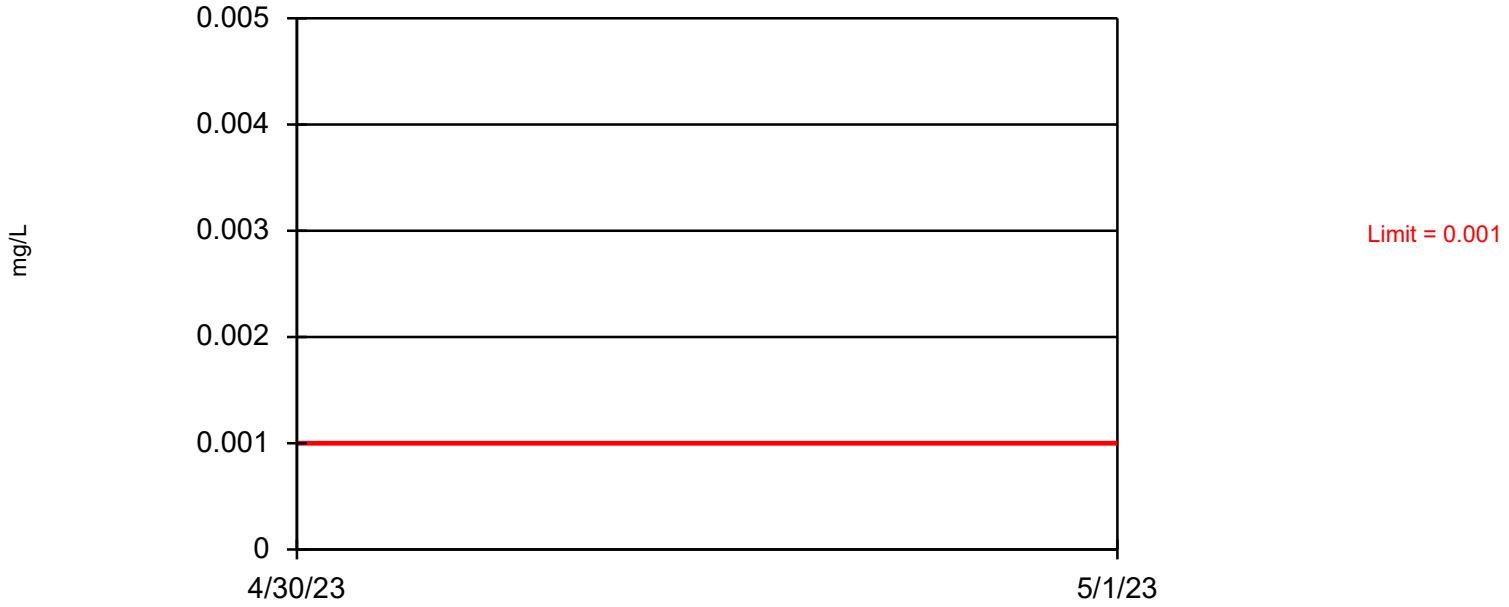
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 90.2% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Cadmium Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



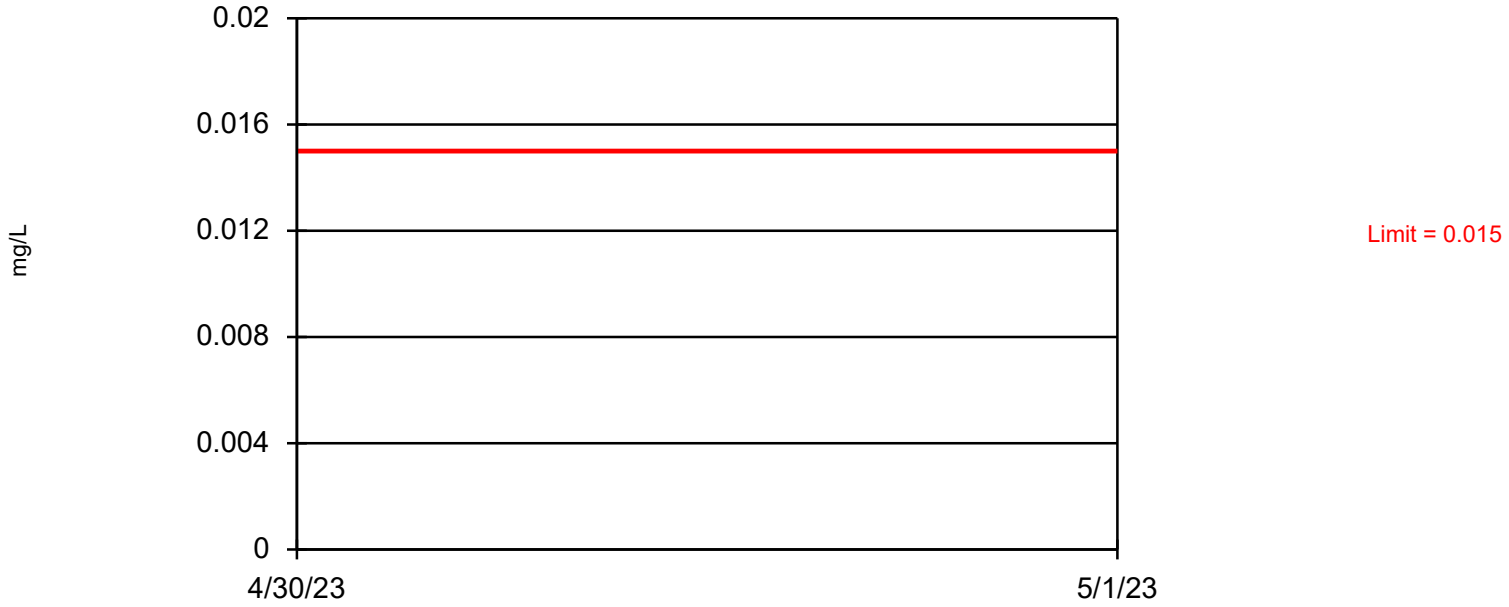
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 82.35% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Chromium Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the data required both a power transformation and Cohen's adjustment. Limit is highest of 51 background values. 35.29% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Cobalt Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



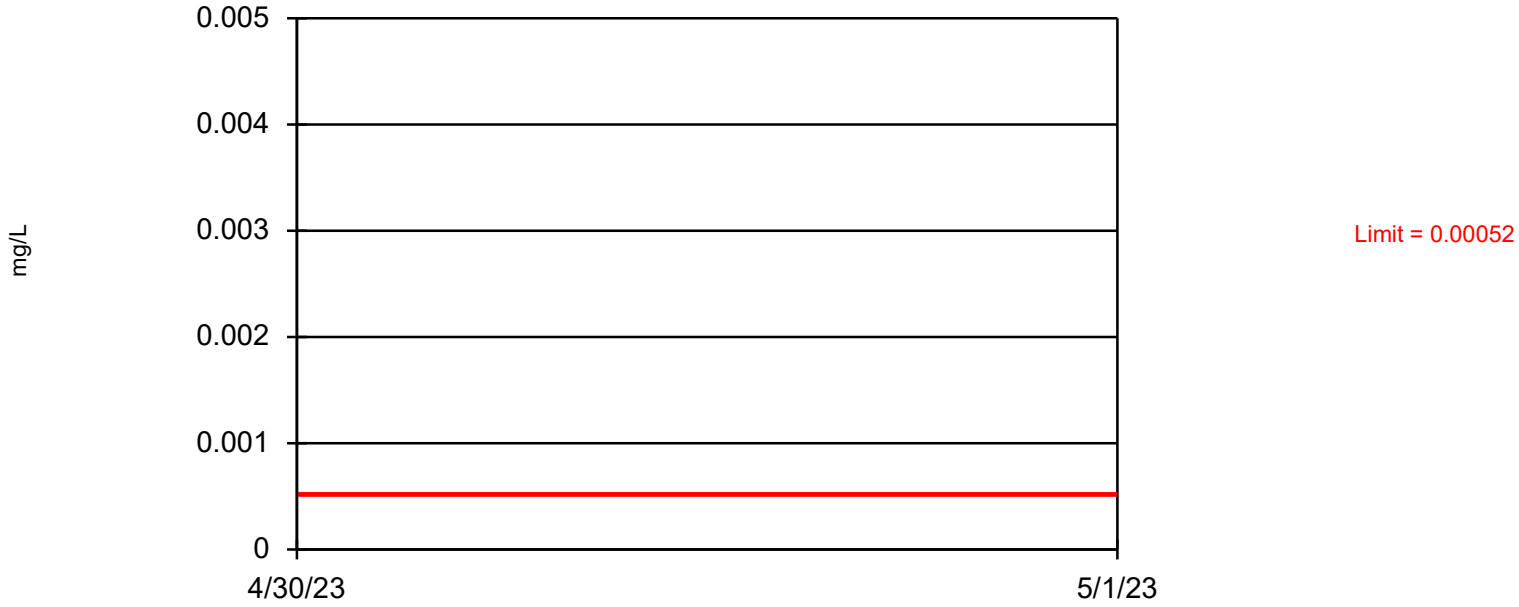
Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 54 background values. 1.852% NDs. 91.99% coverage at alpha=0.01; 94.73% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.06267.

Constituent: Fluoride Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



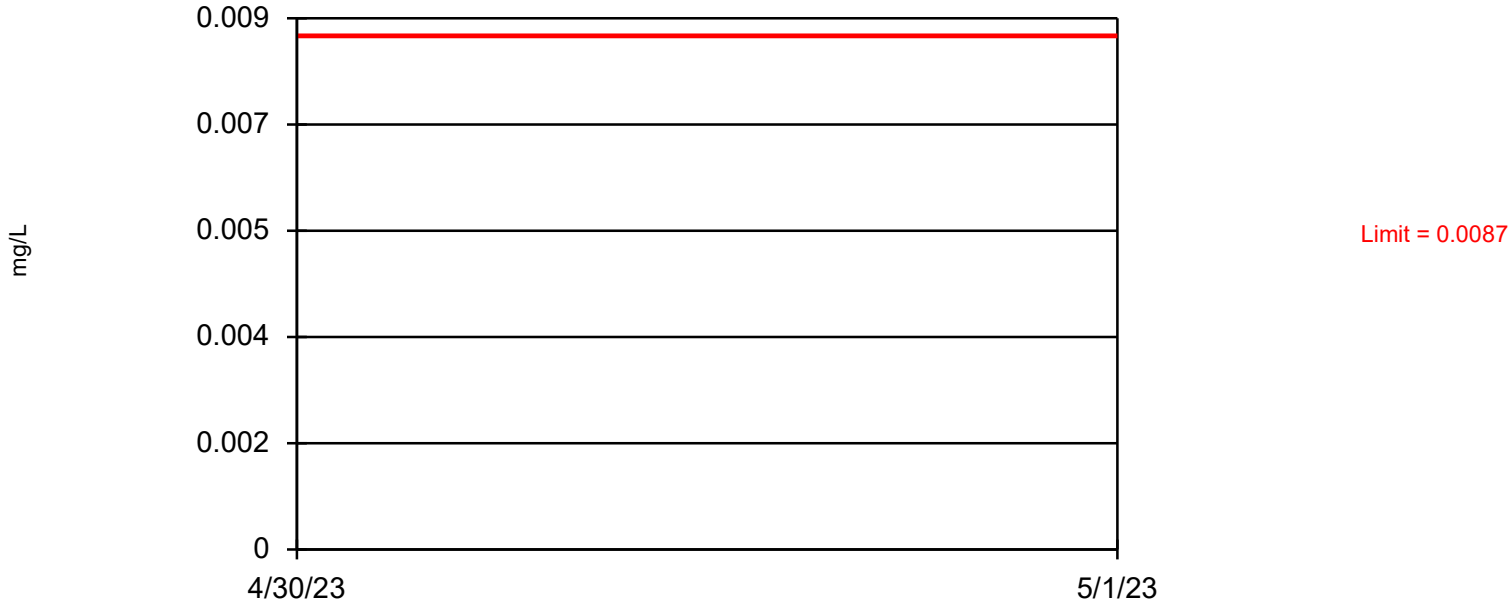
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 86.27% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Lead Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



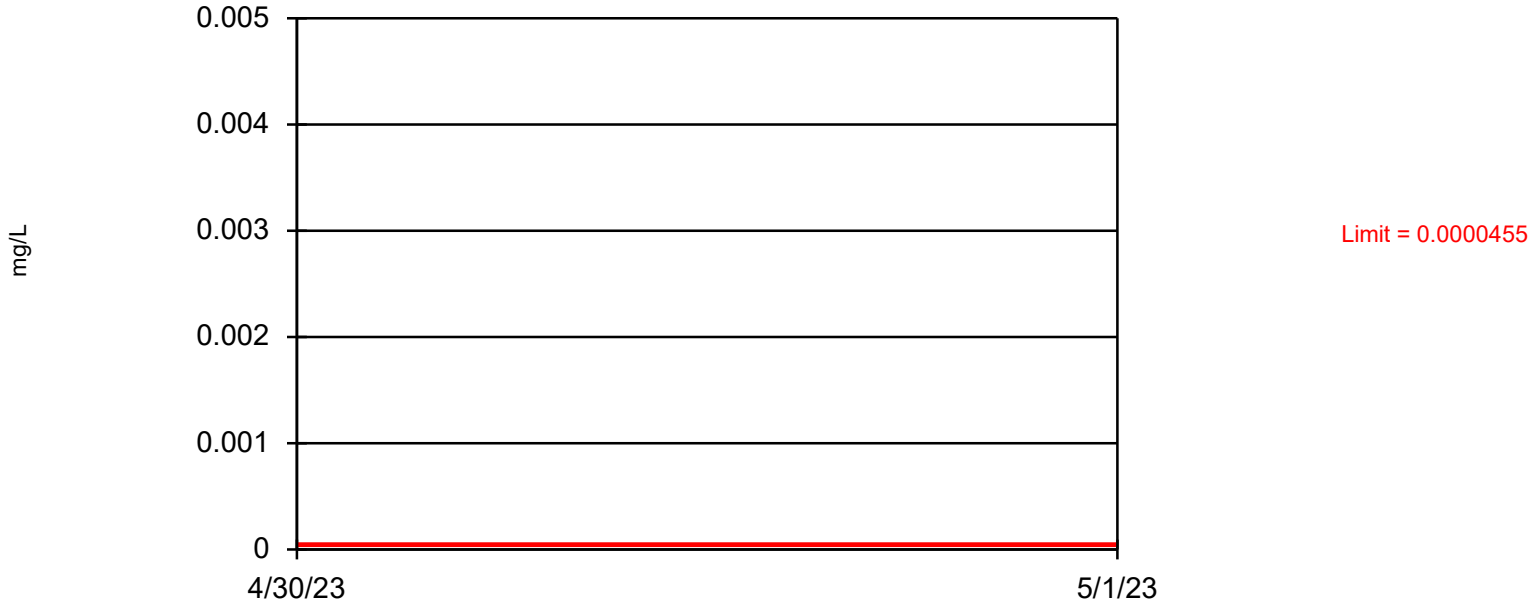
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 70.59% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Lithium Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. All background values were censored; limit is most recent reporting limit. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

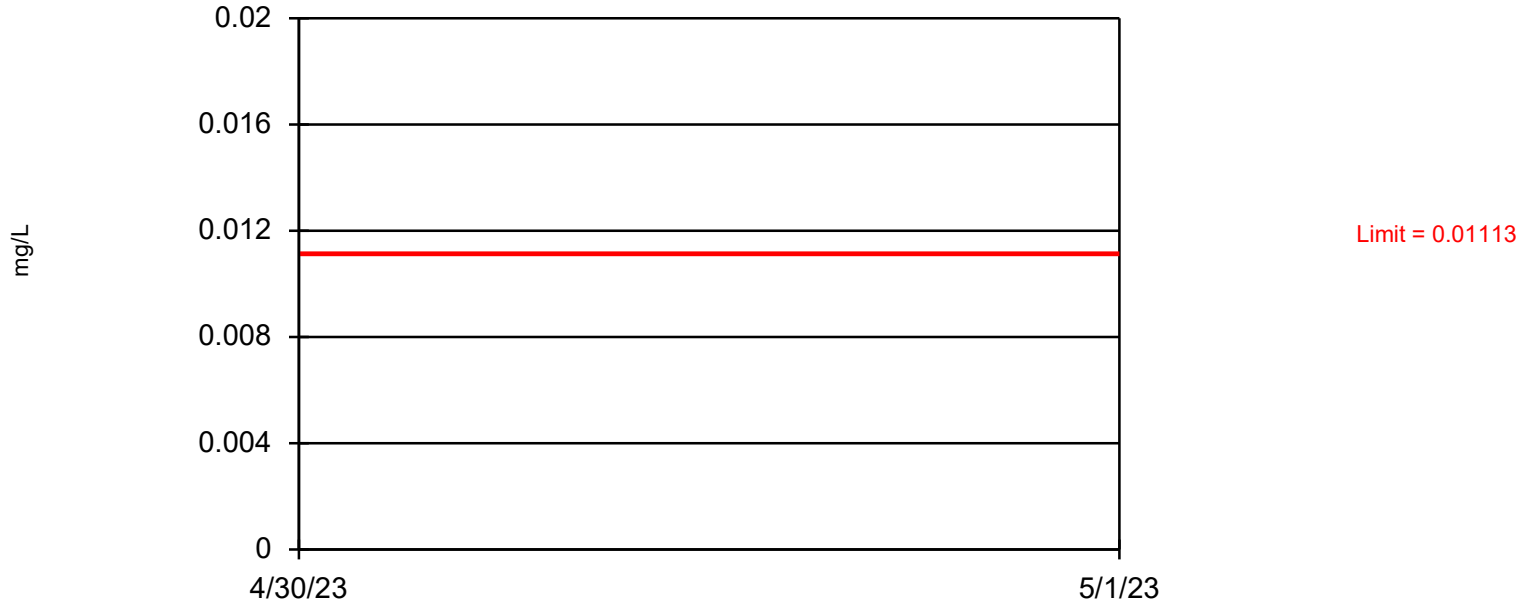
Constituent: Mercury Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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Tolerance Limit

Interwell Parametric



95% coverage. Background Data Summary: Mean=0.006129, Std. Dev.=0.002429, n=51, 9.804% NDs. Normality test: Shapiro Francia @alpha = 0.05, calculated = 0.9806, critical = 0.954. Report alpha = 0.05.

Constituent: Molybdenum Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Parametric



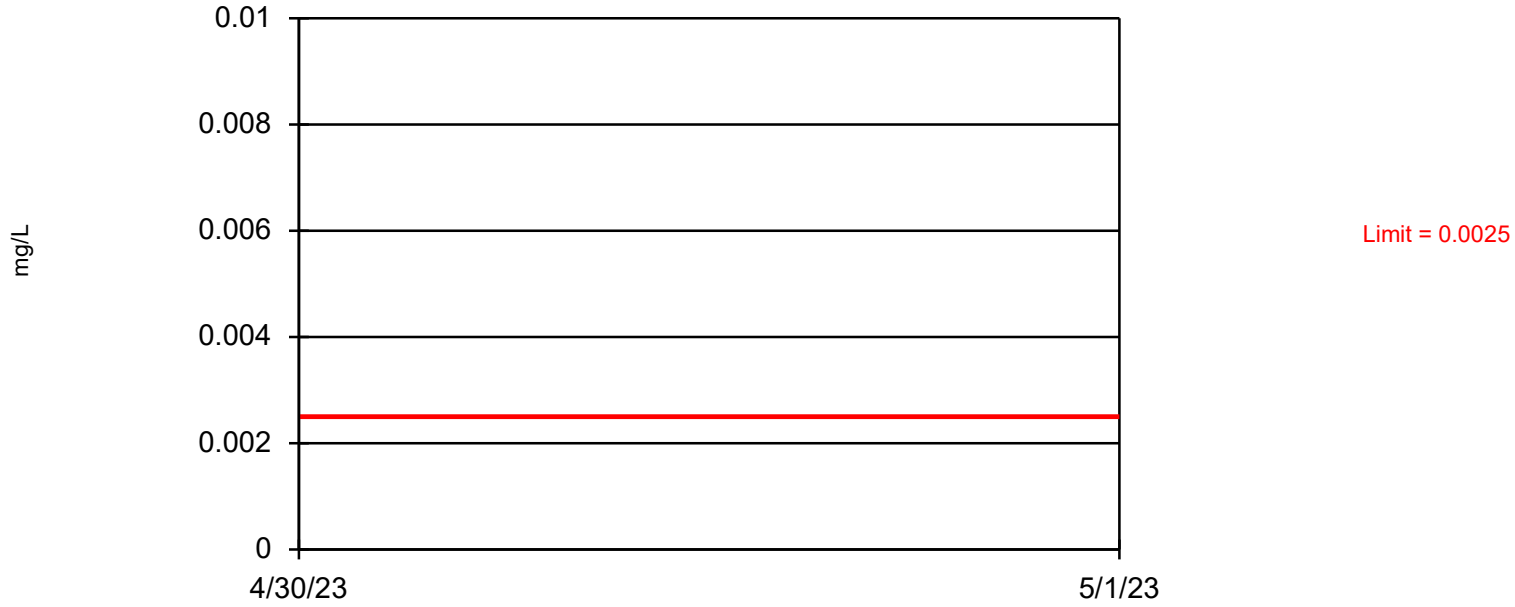
95% coverage. Background Data Summary (after Cohen`s Adjustment): Mean=1.594, Std. Dev.=0.9401, n=41, 41.46% NDs. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9582, critical = 0.941. Report alpha = 0.05.

Constituent: Radium 226 + 228 Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



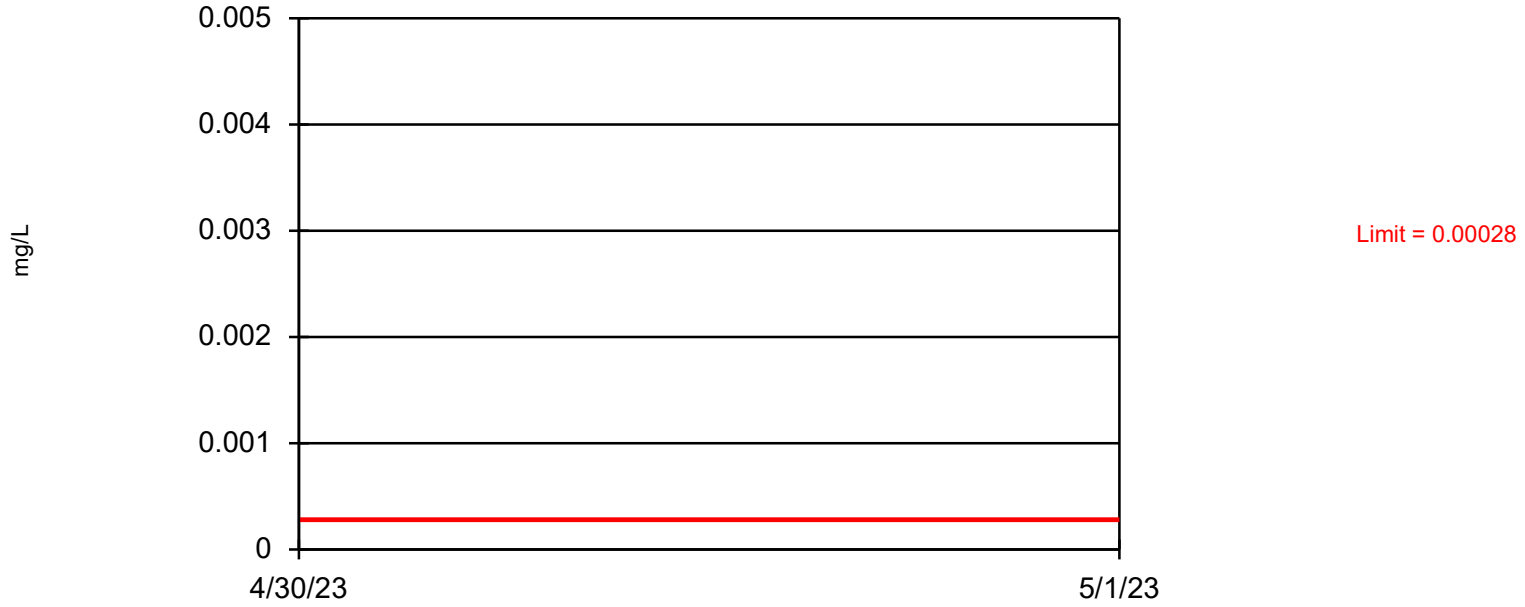
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 92.16% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Selenium Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Tolerance Limit

Interwell Non-parametric



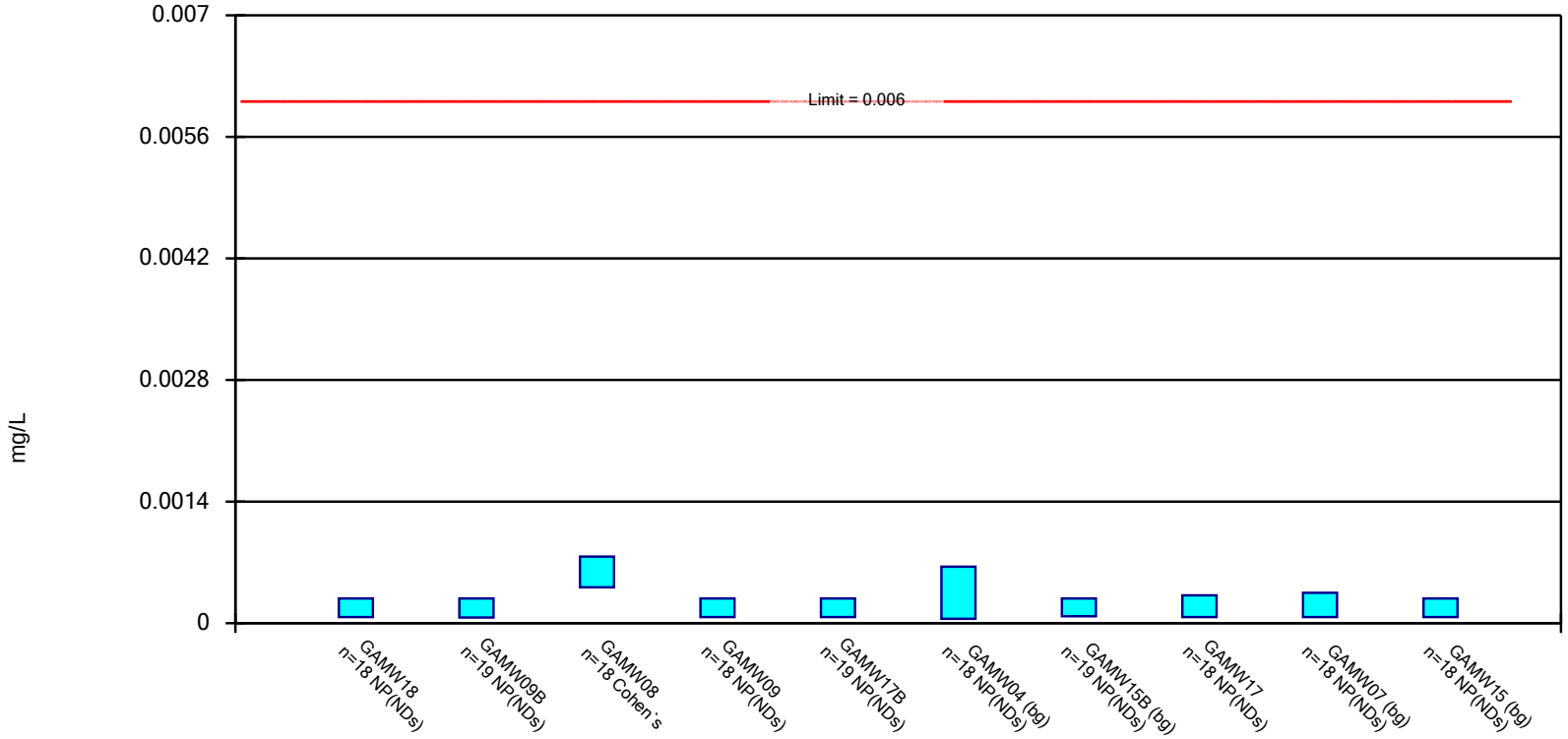
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 51 background values. 98.04% NDs. 91.21% coverage at alpha=0.01; 94.34% coverage at alpha=0.05; 98.63% coverage at alpha=0.5. Report alpha = 0.0731.

Constituent: Thallium Analysis Run 8/2/2023 10:51 AM View: CCR Assessment Background Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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.

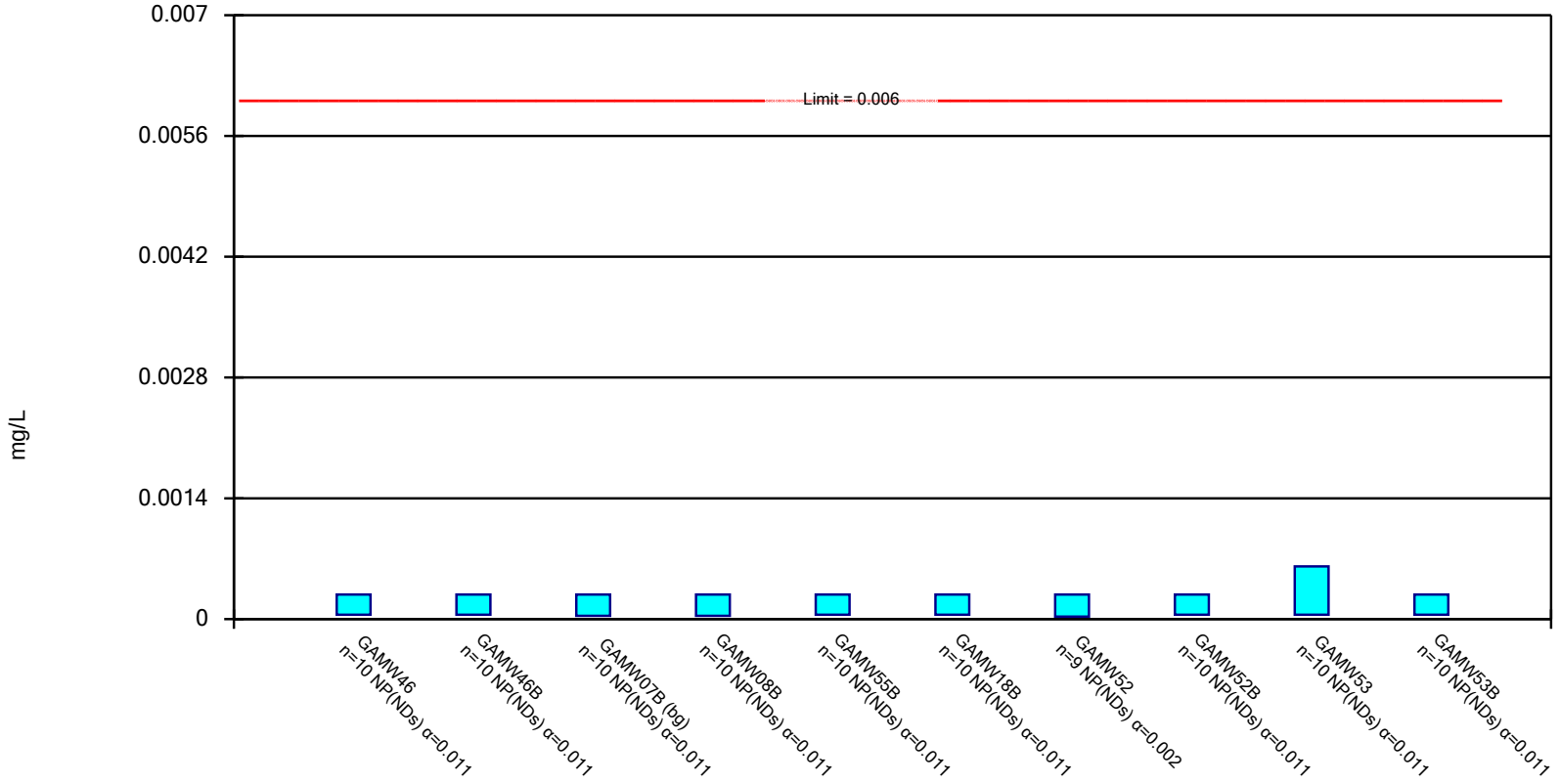


Constituent: Antimony Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

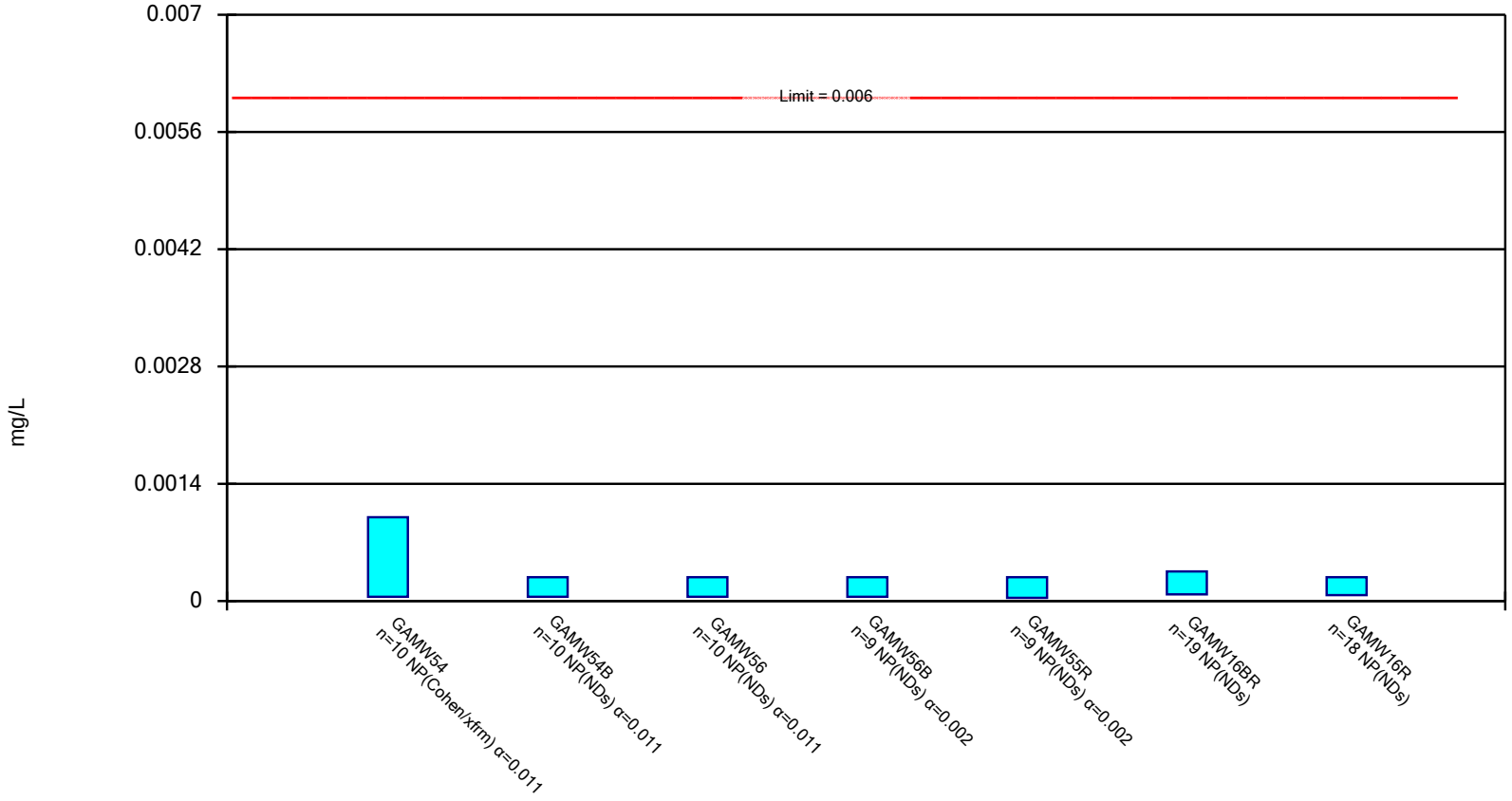


Constituent: Antimony Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

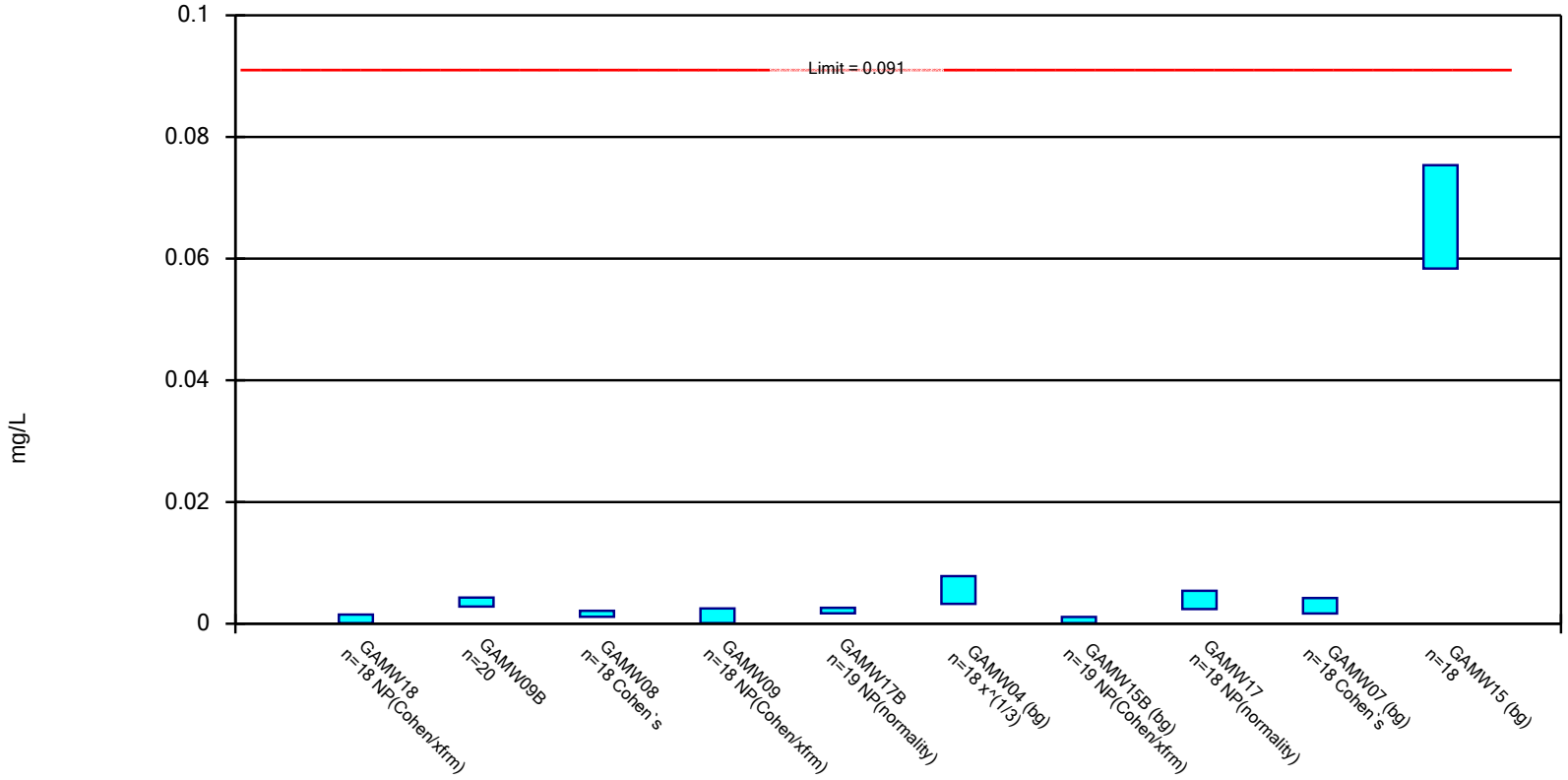


Constituent: Antimony Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

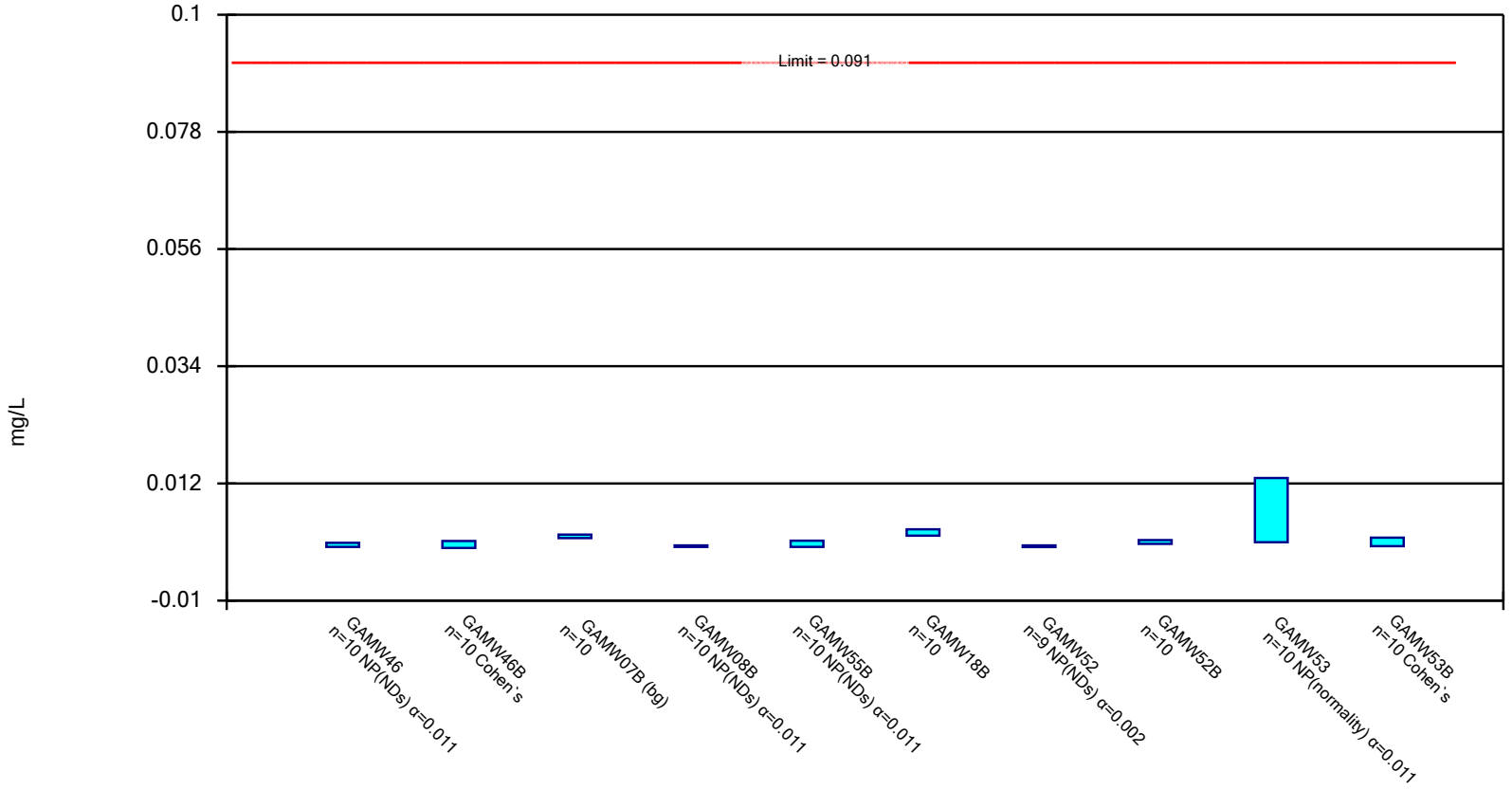


Constituent: Arsenic Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

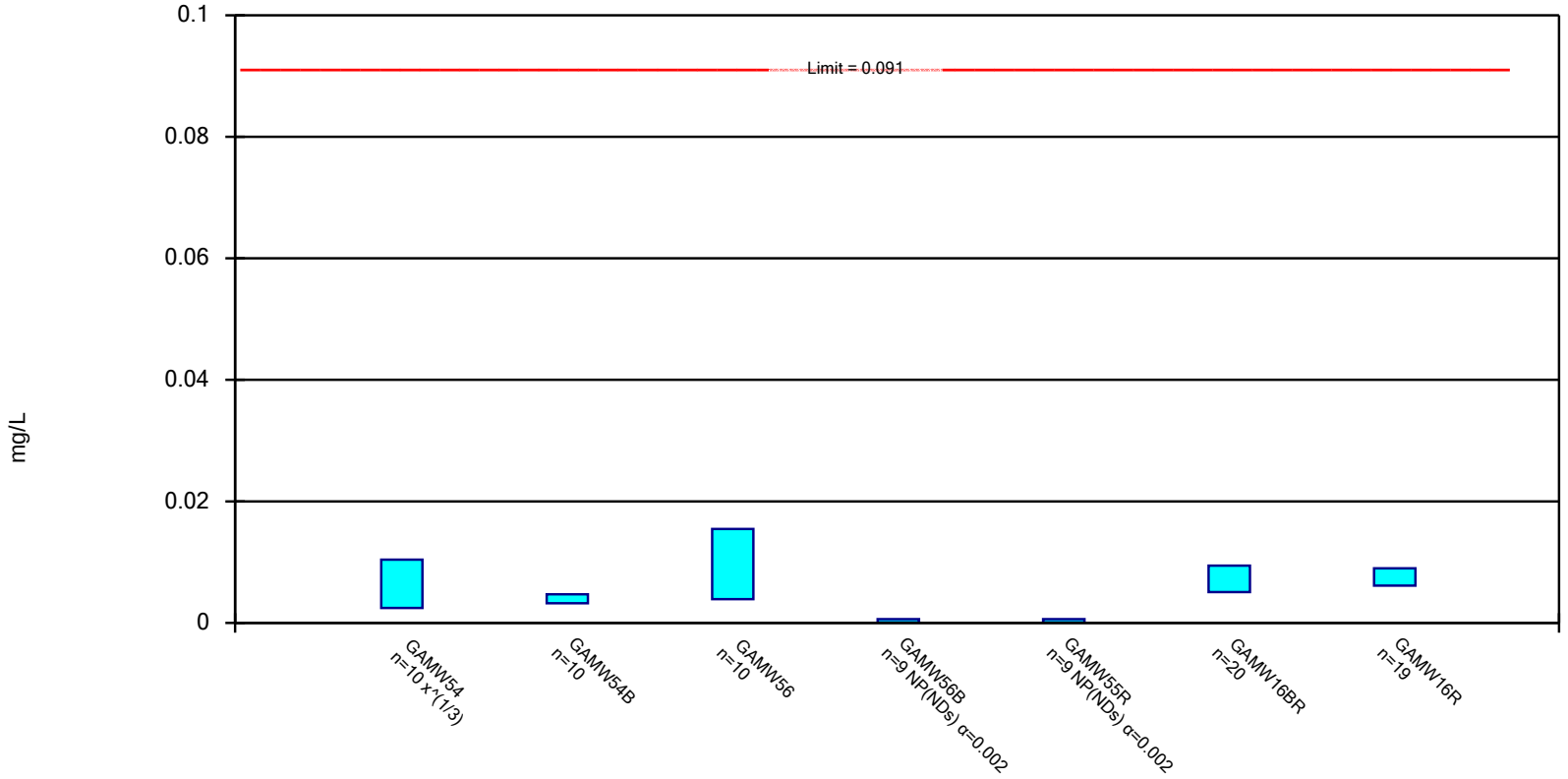


Constituent: Arsenic Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

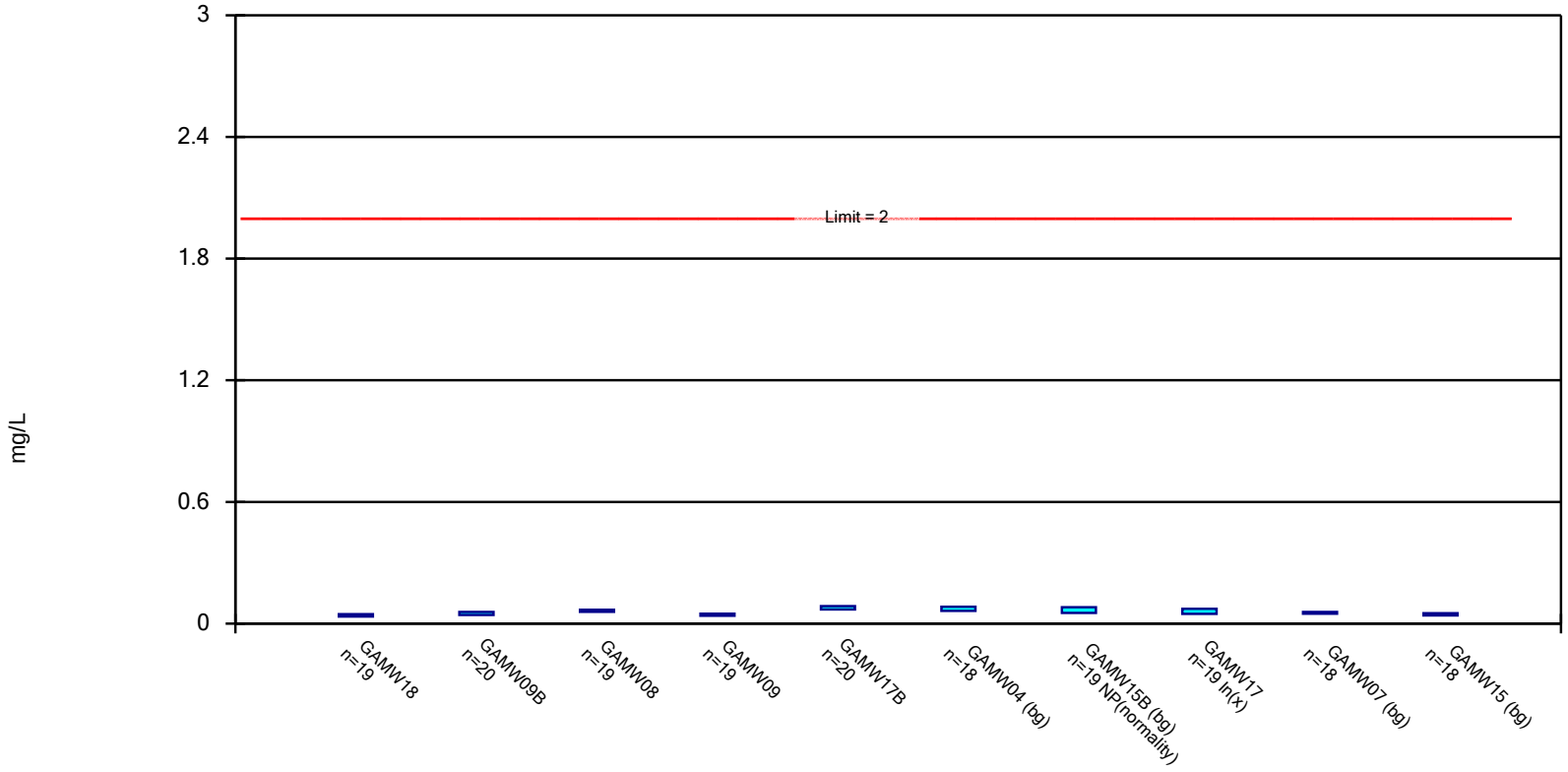


Constituent: Arsenic Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

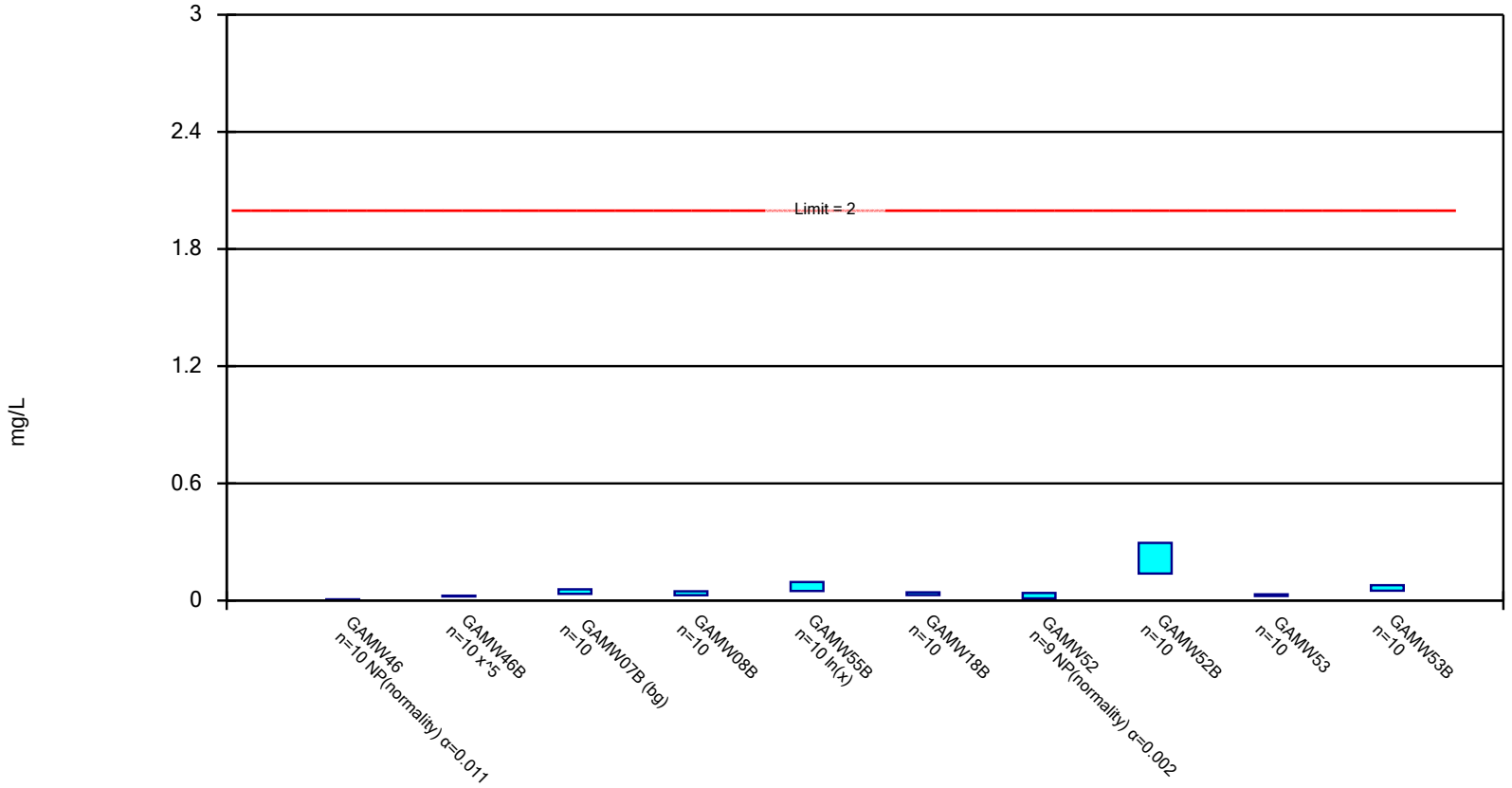


Constituent: Barium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

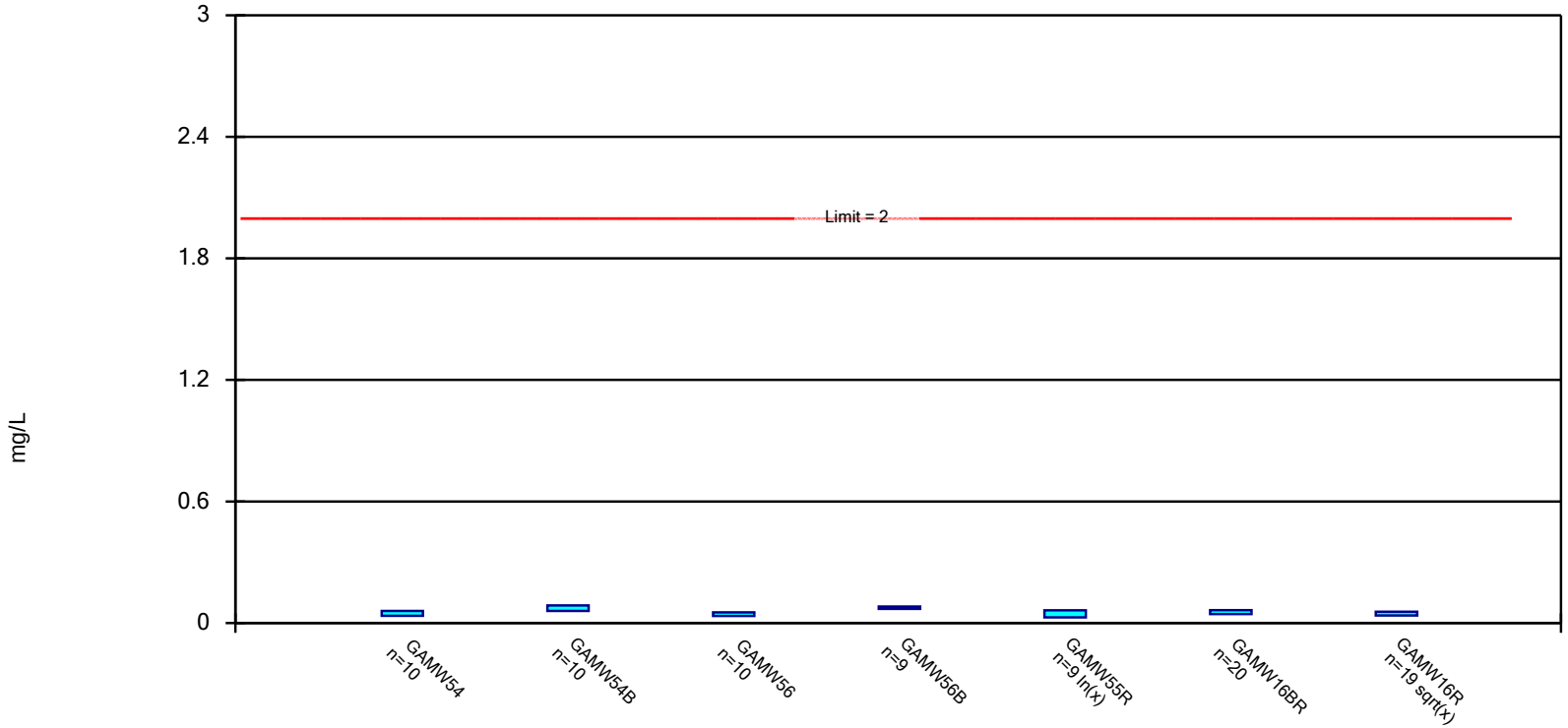


Constituent: Barium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

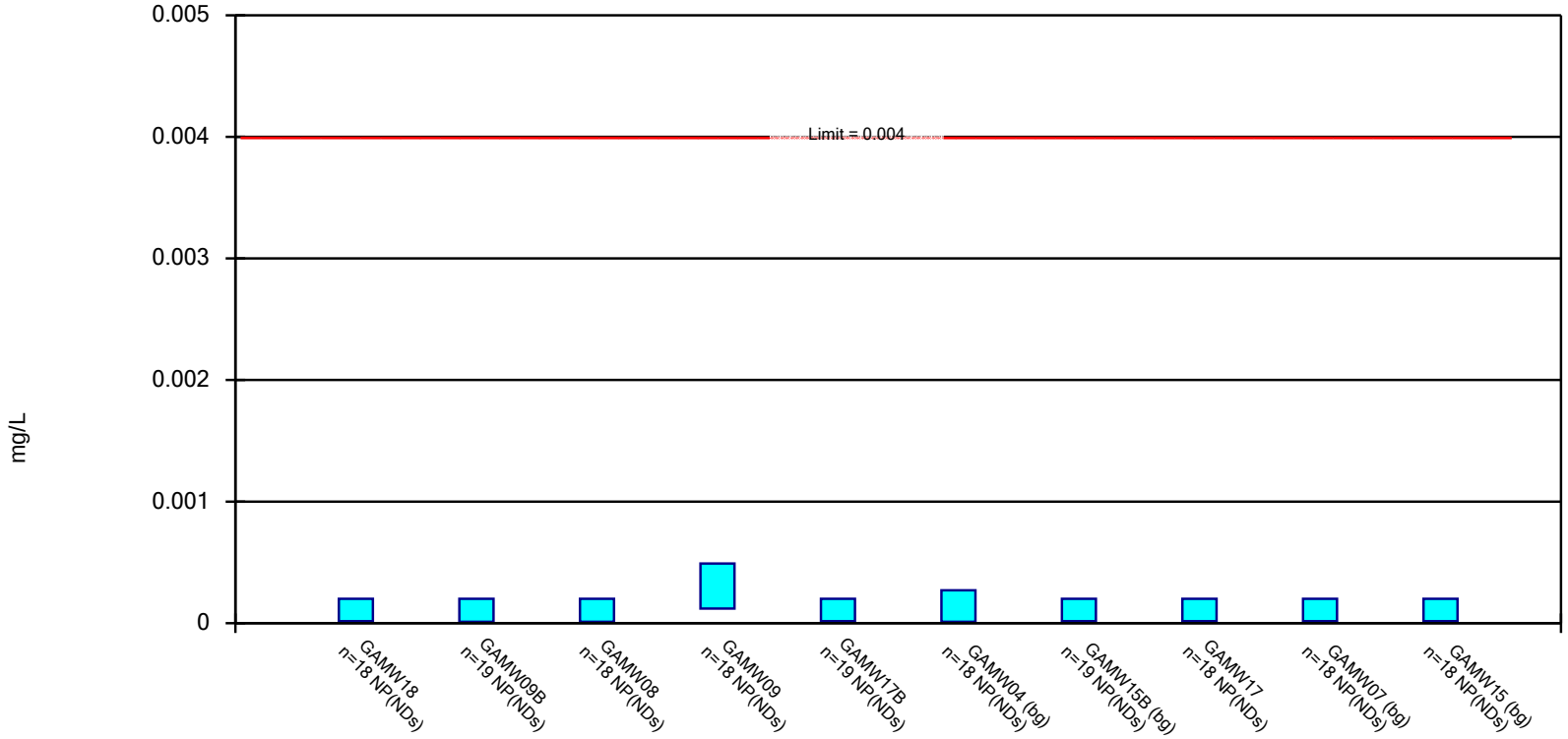


Constituent: Barium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

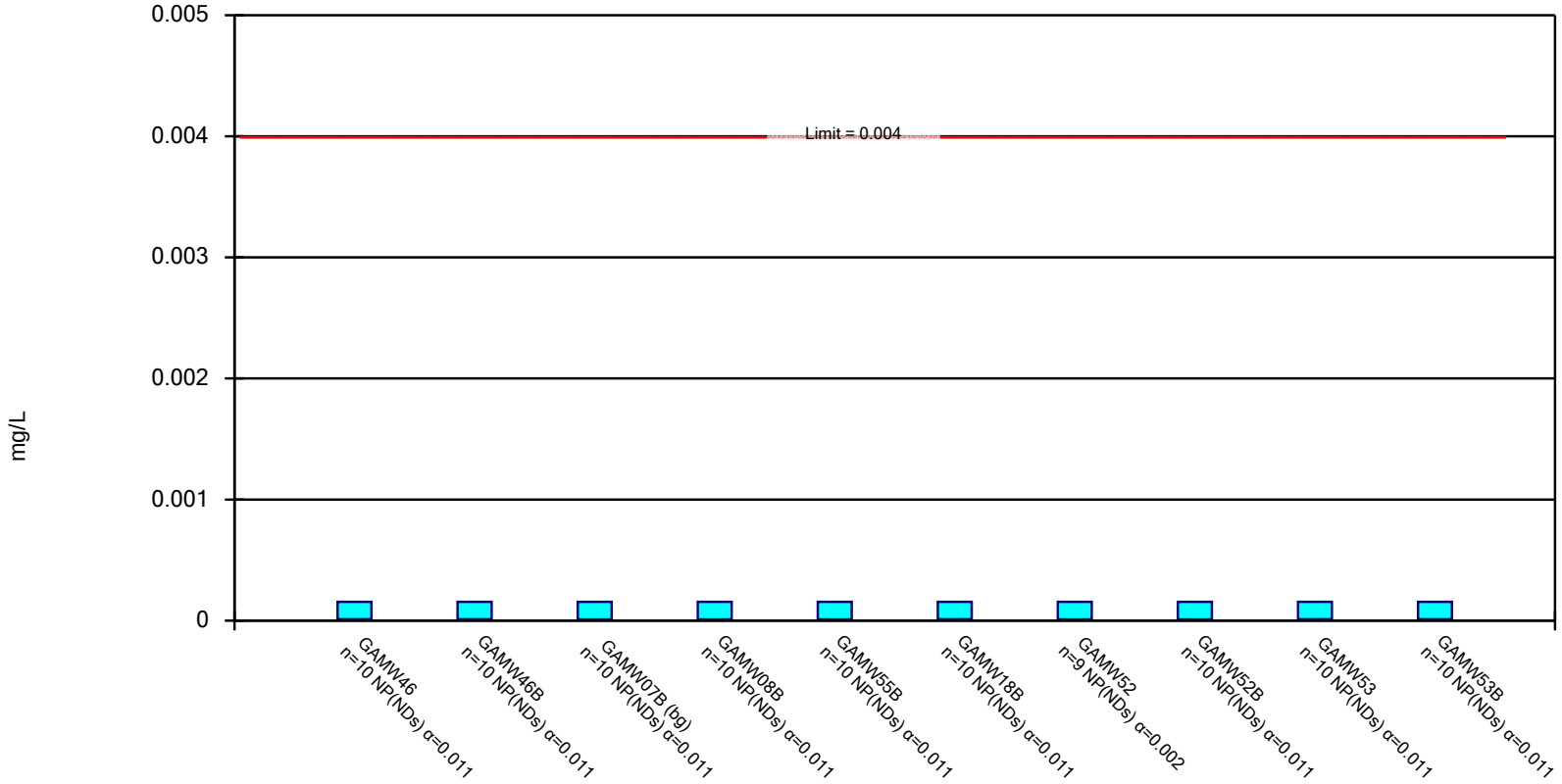


Constituent: Beryllium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

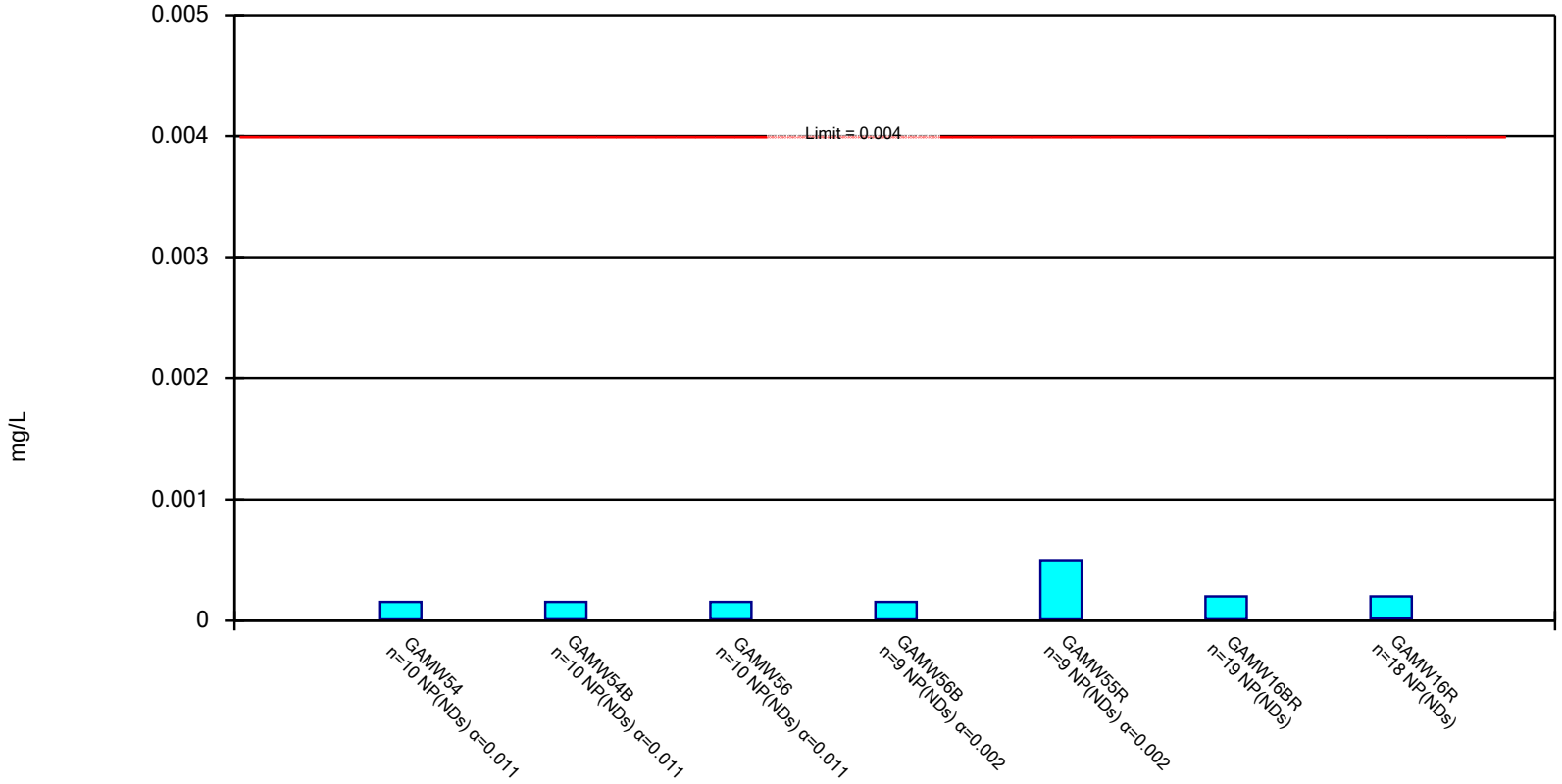


Constituent: Beryllium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

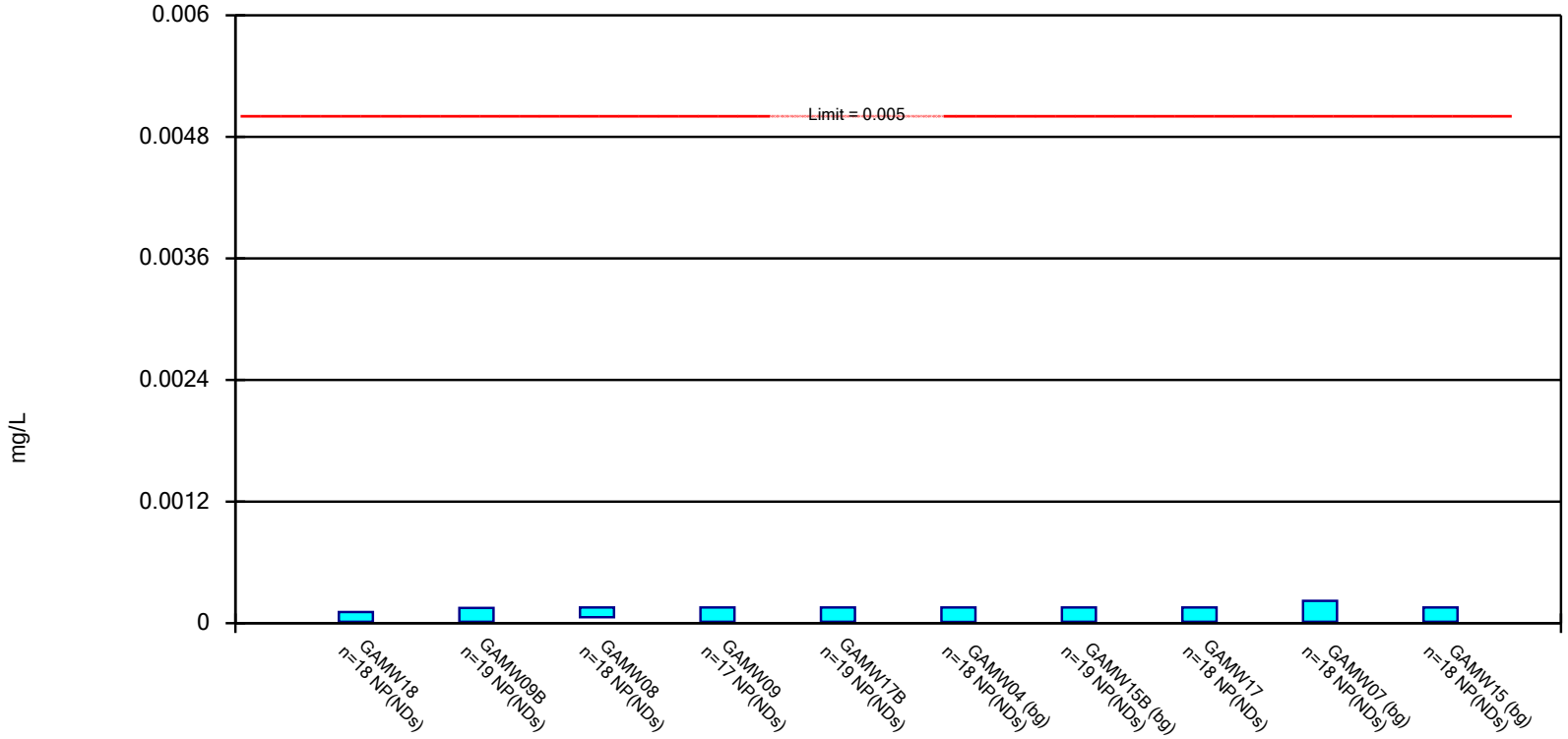


Constituent: Beryllium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

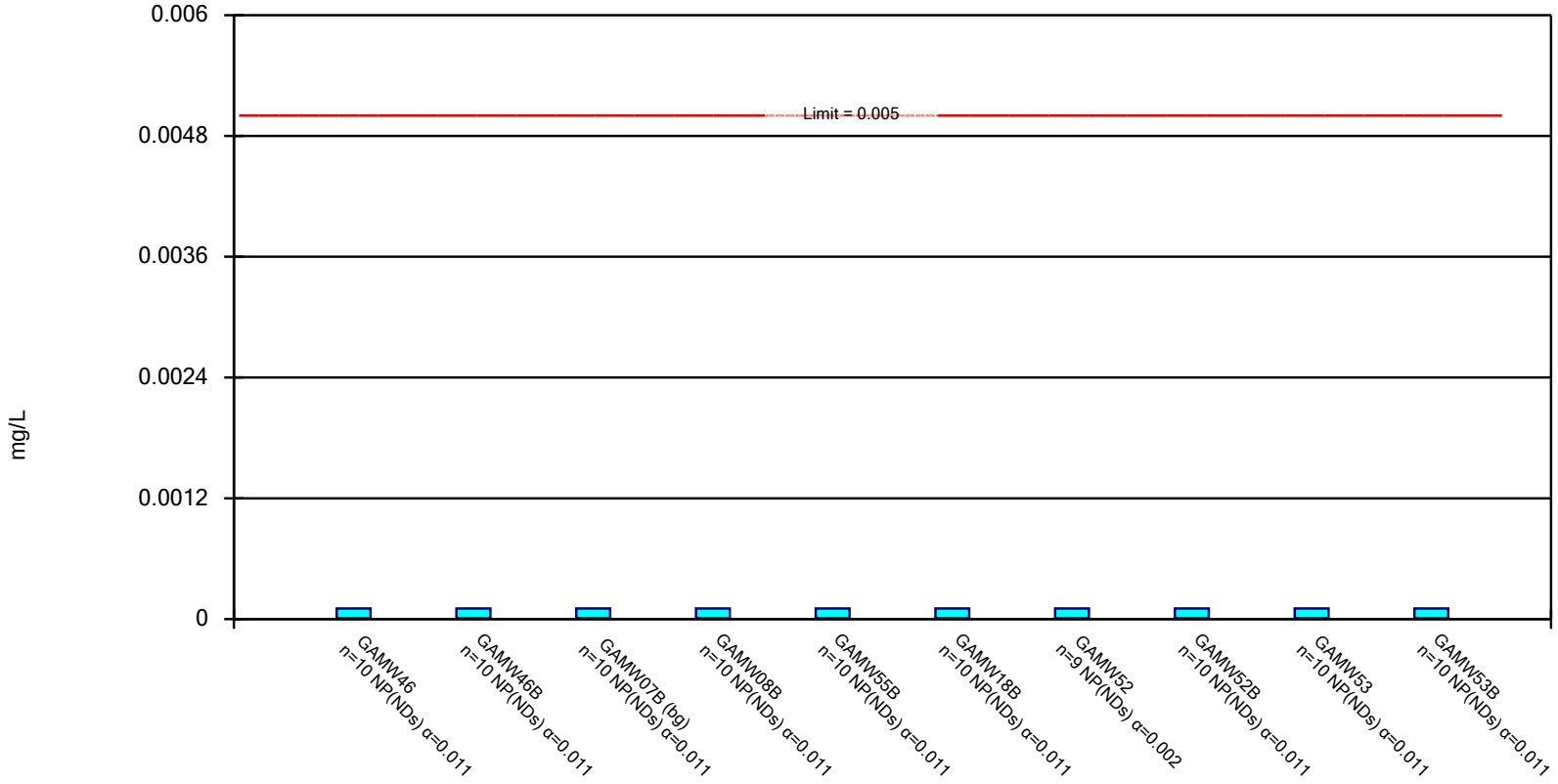


Constituent: Cadmium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

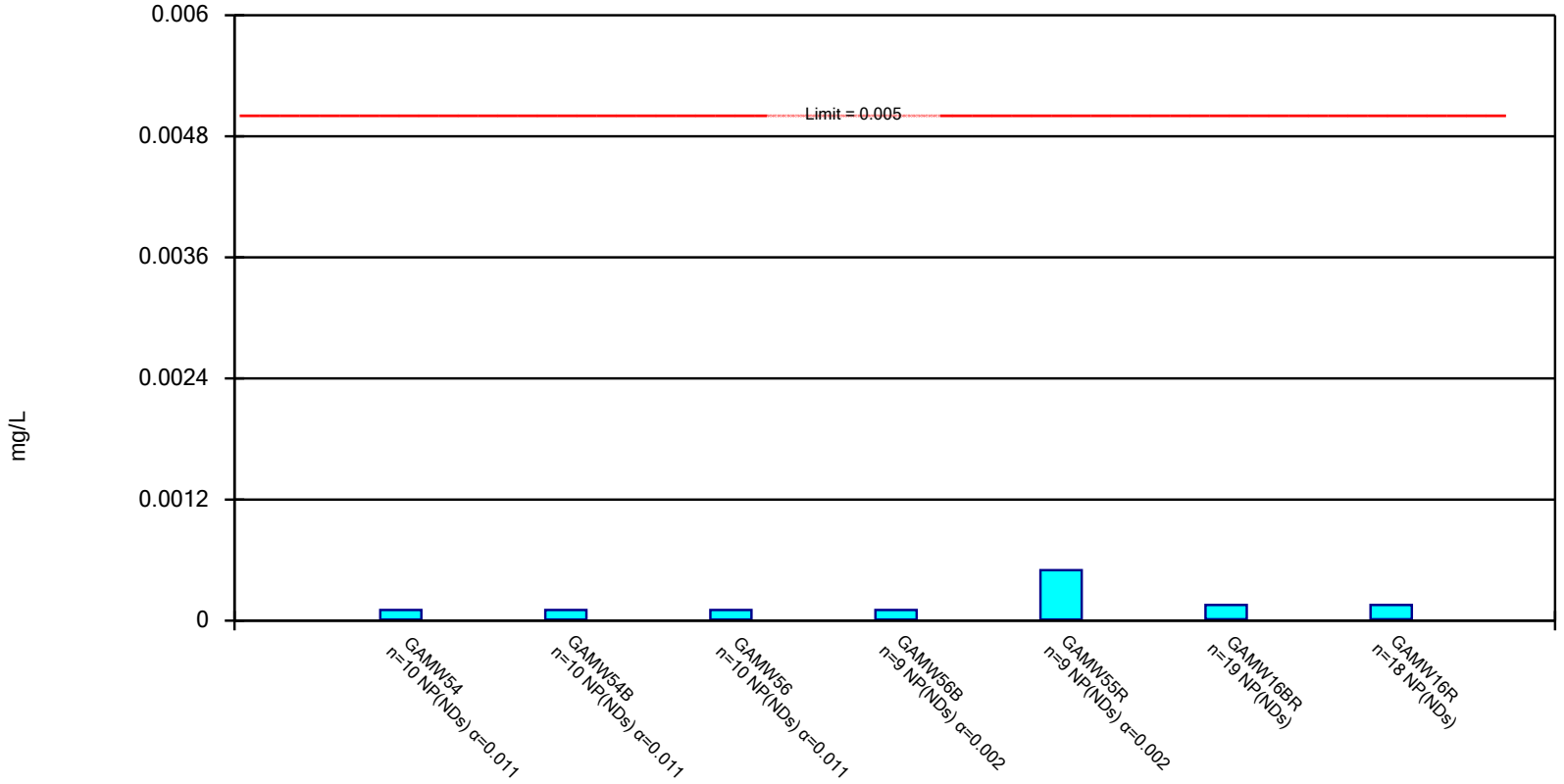


Constituent: Cadmium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

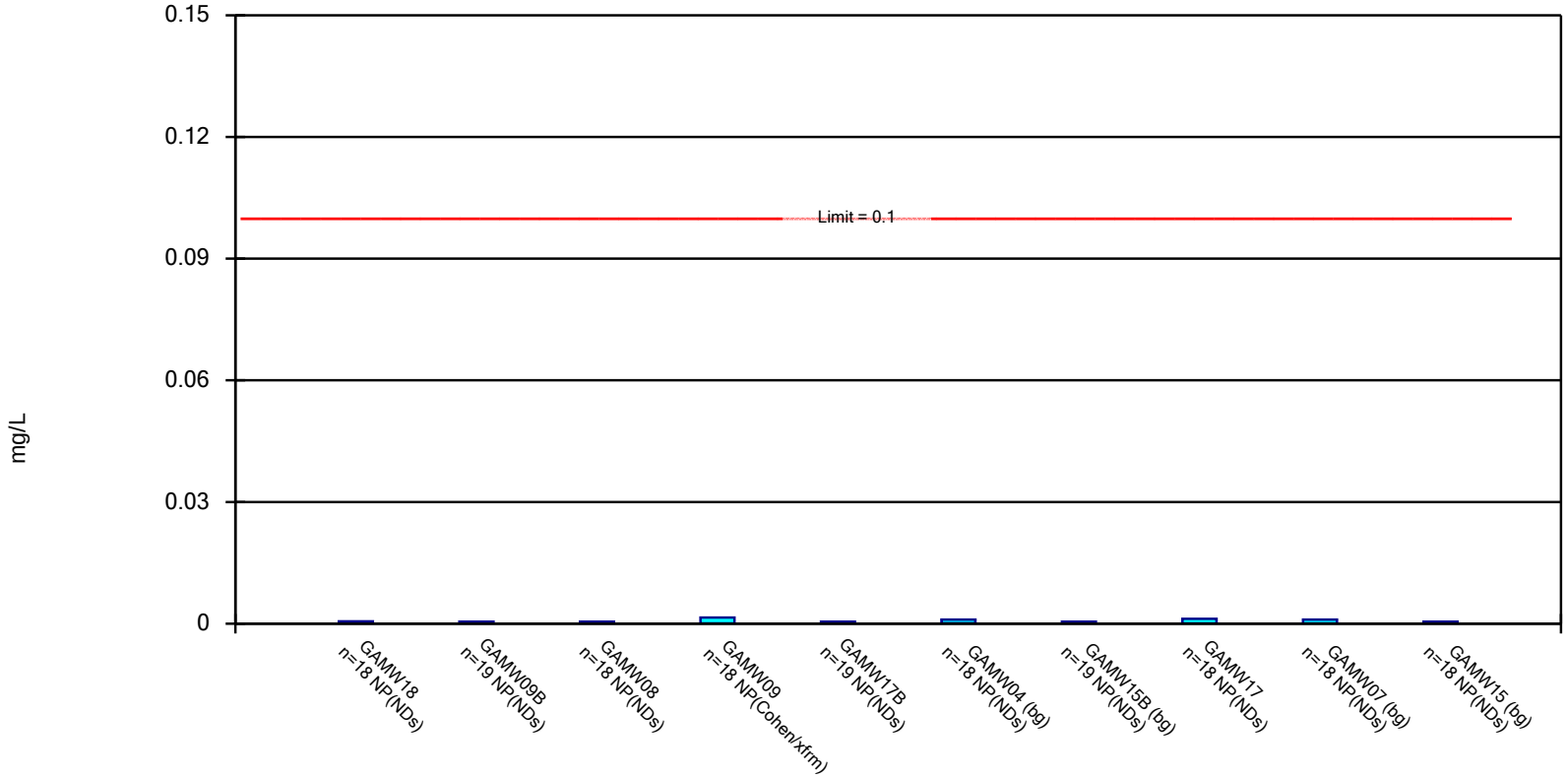


Constituent: Cadmium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

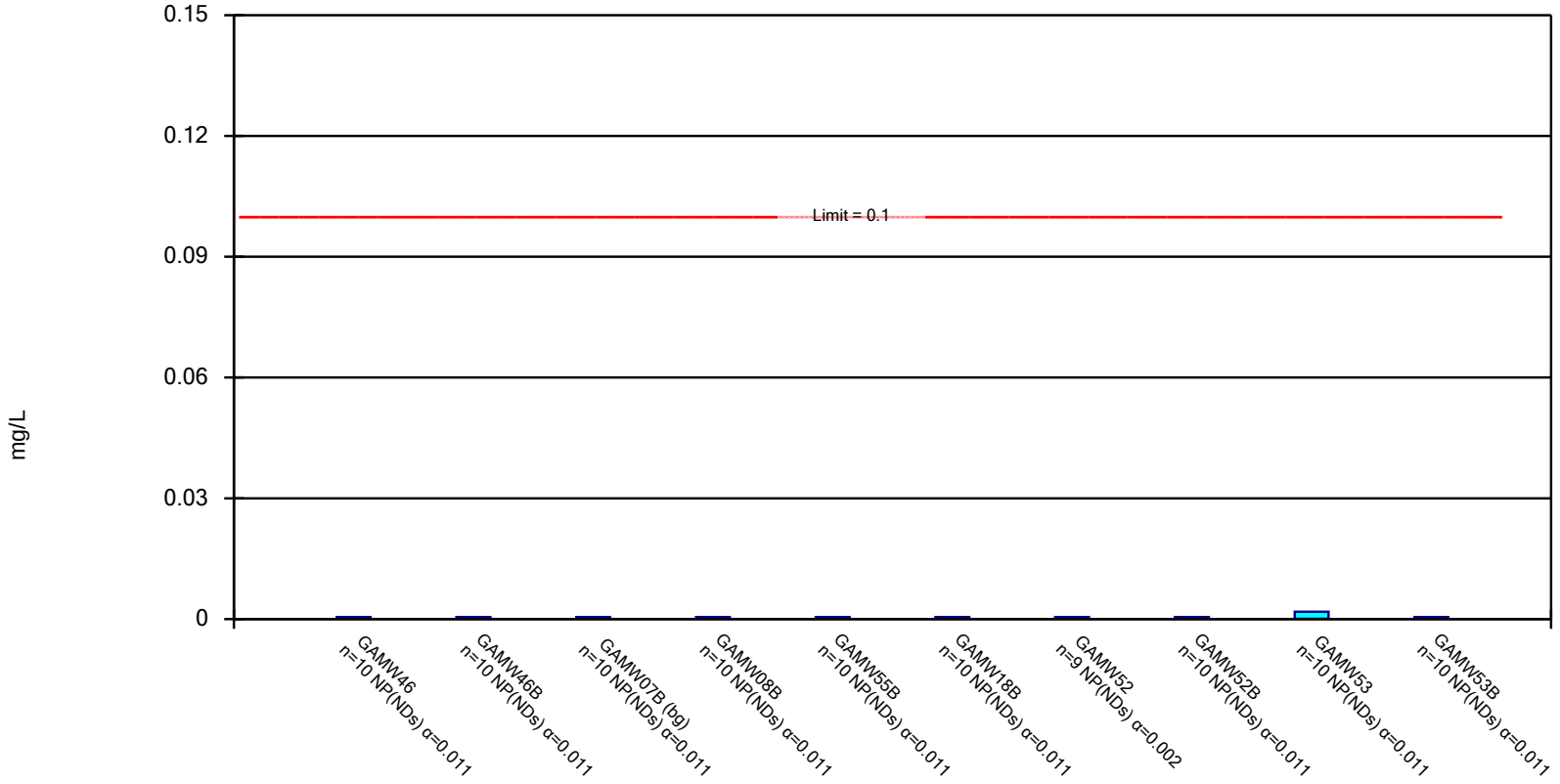


Constituent: Chromium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

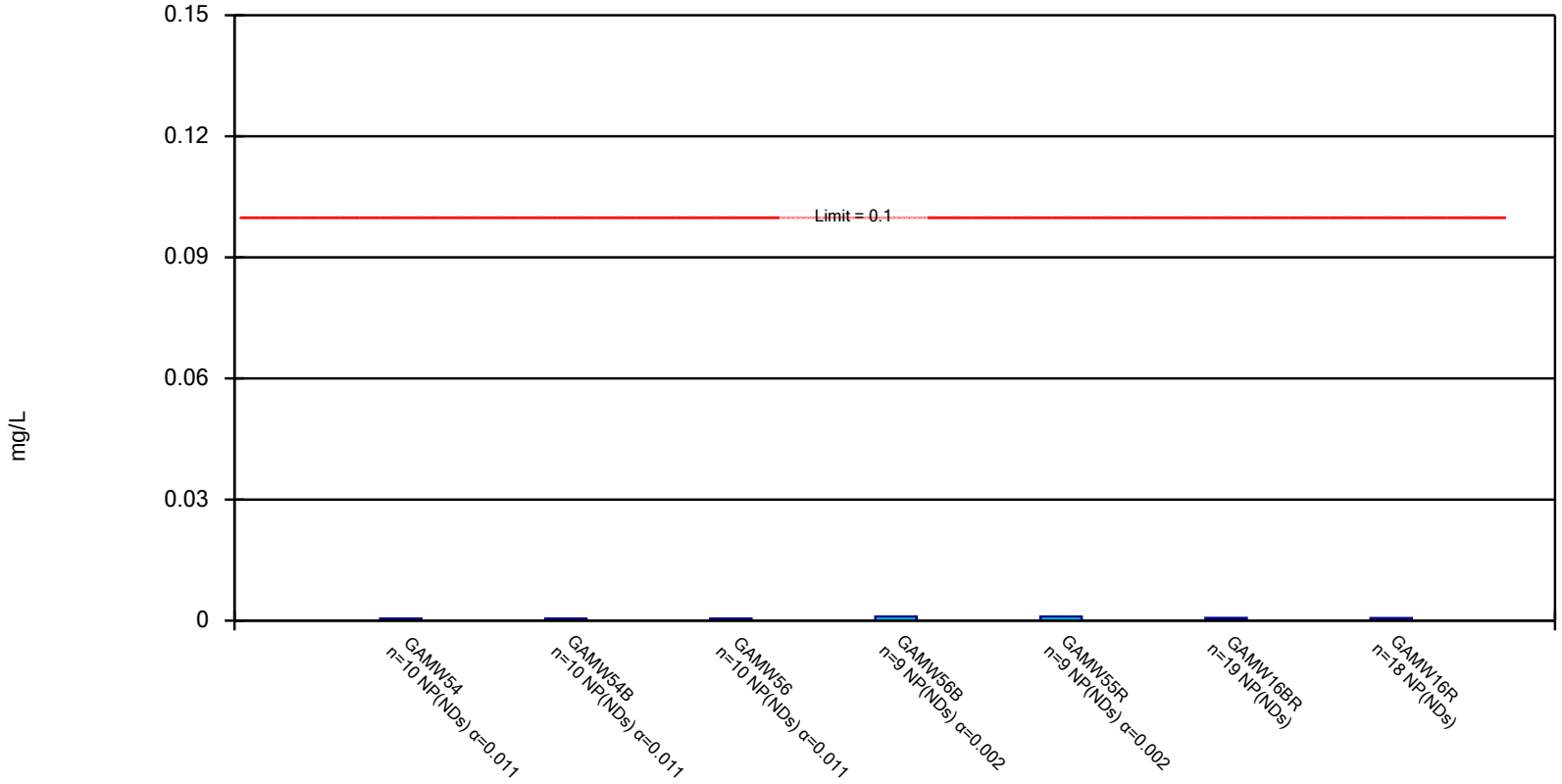


Constituent: Chromium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

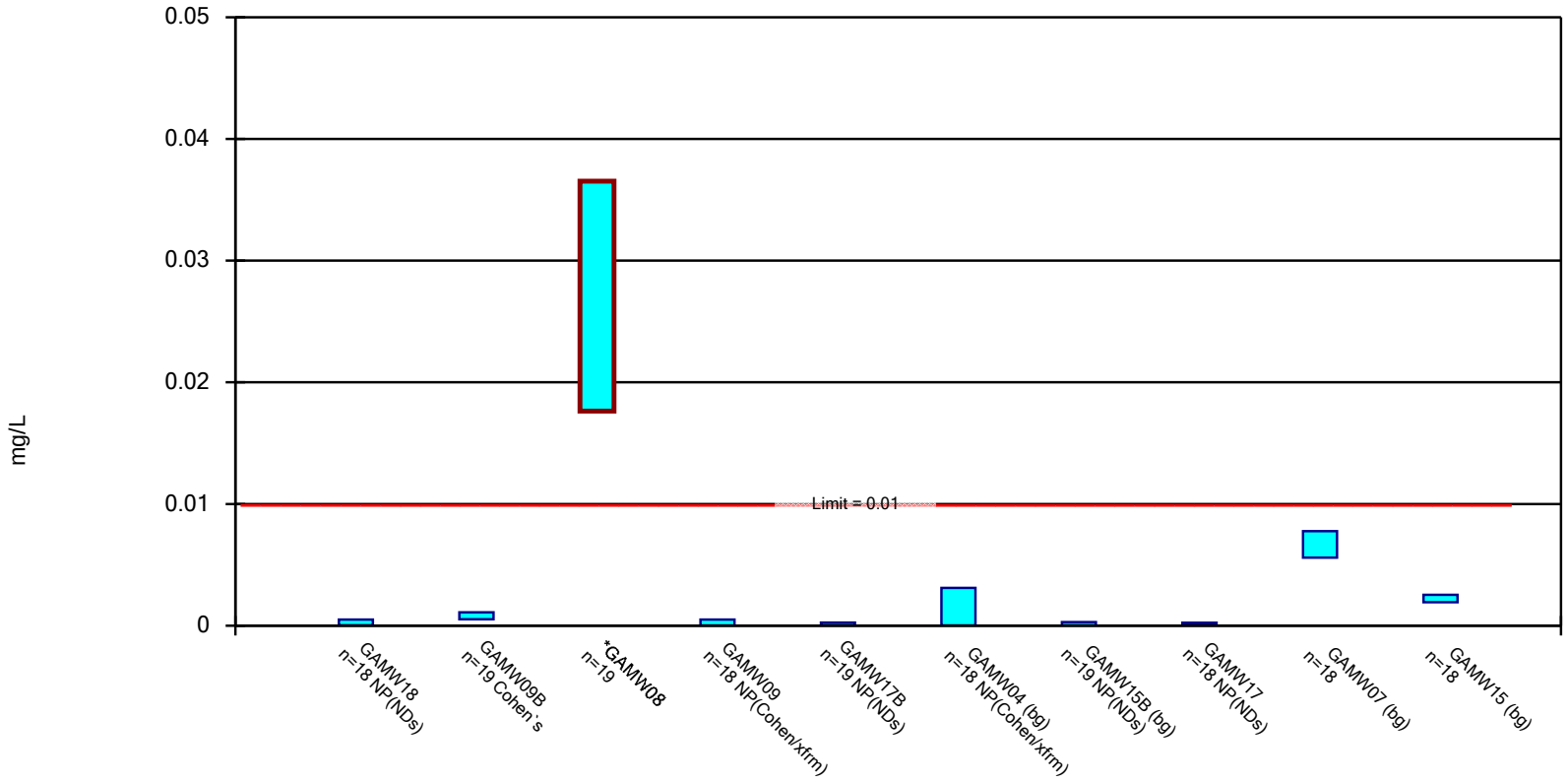


Constituent: Chromium Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

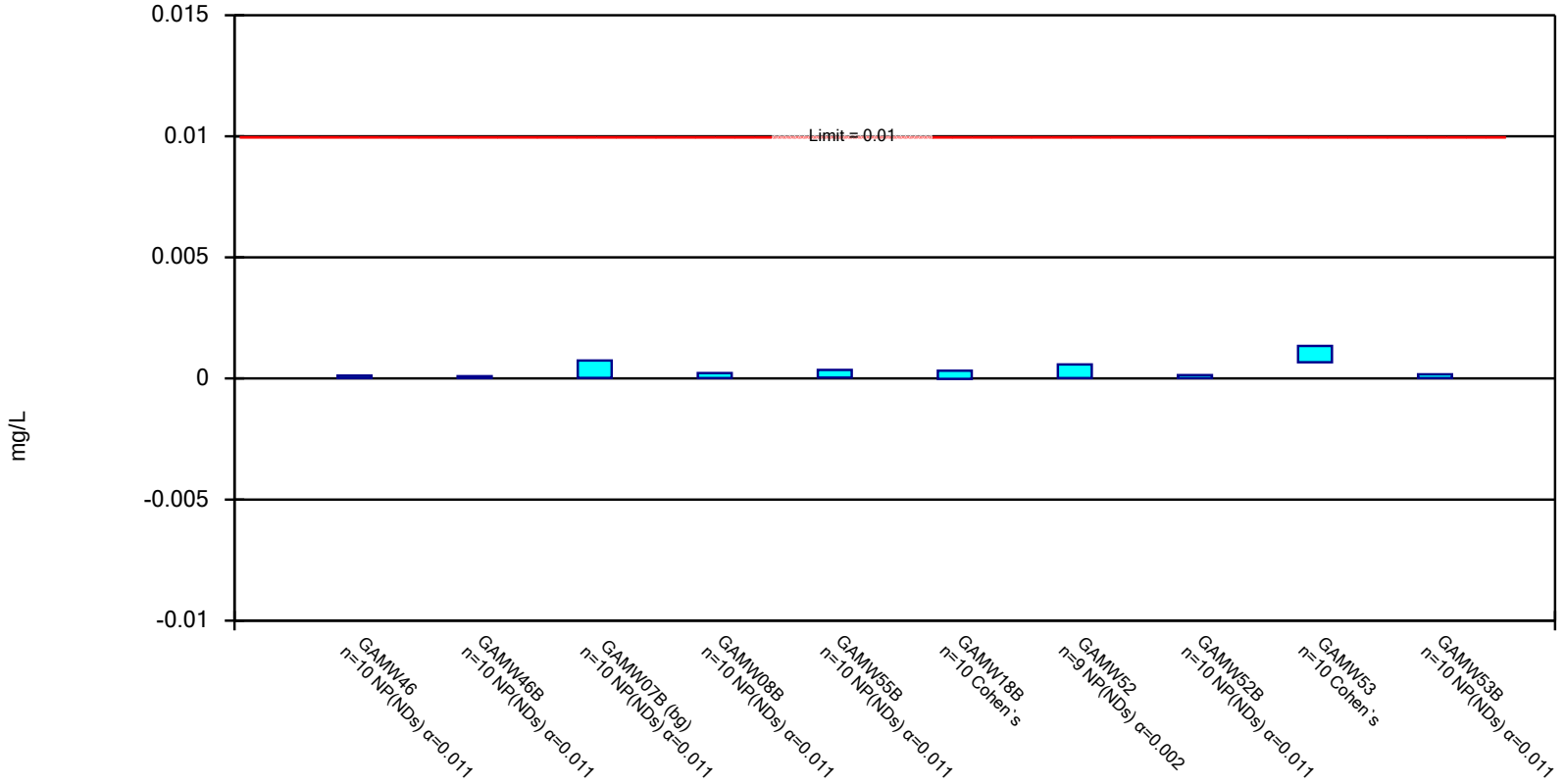


Constituent: Cobalt Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

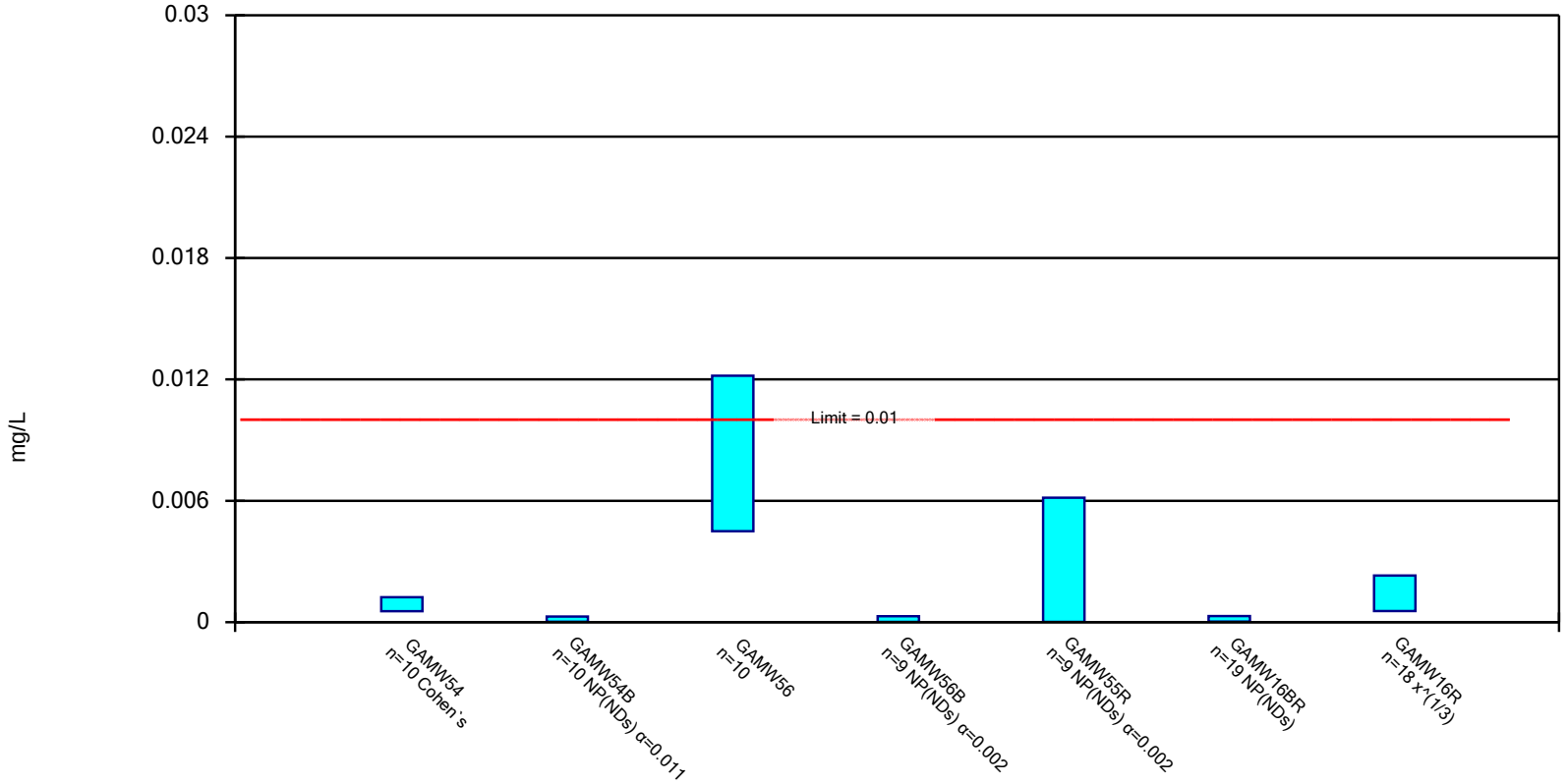


Constituent: Cobalt Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

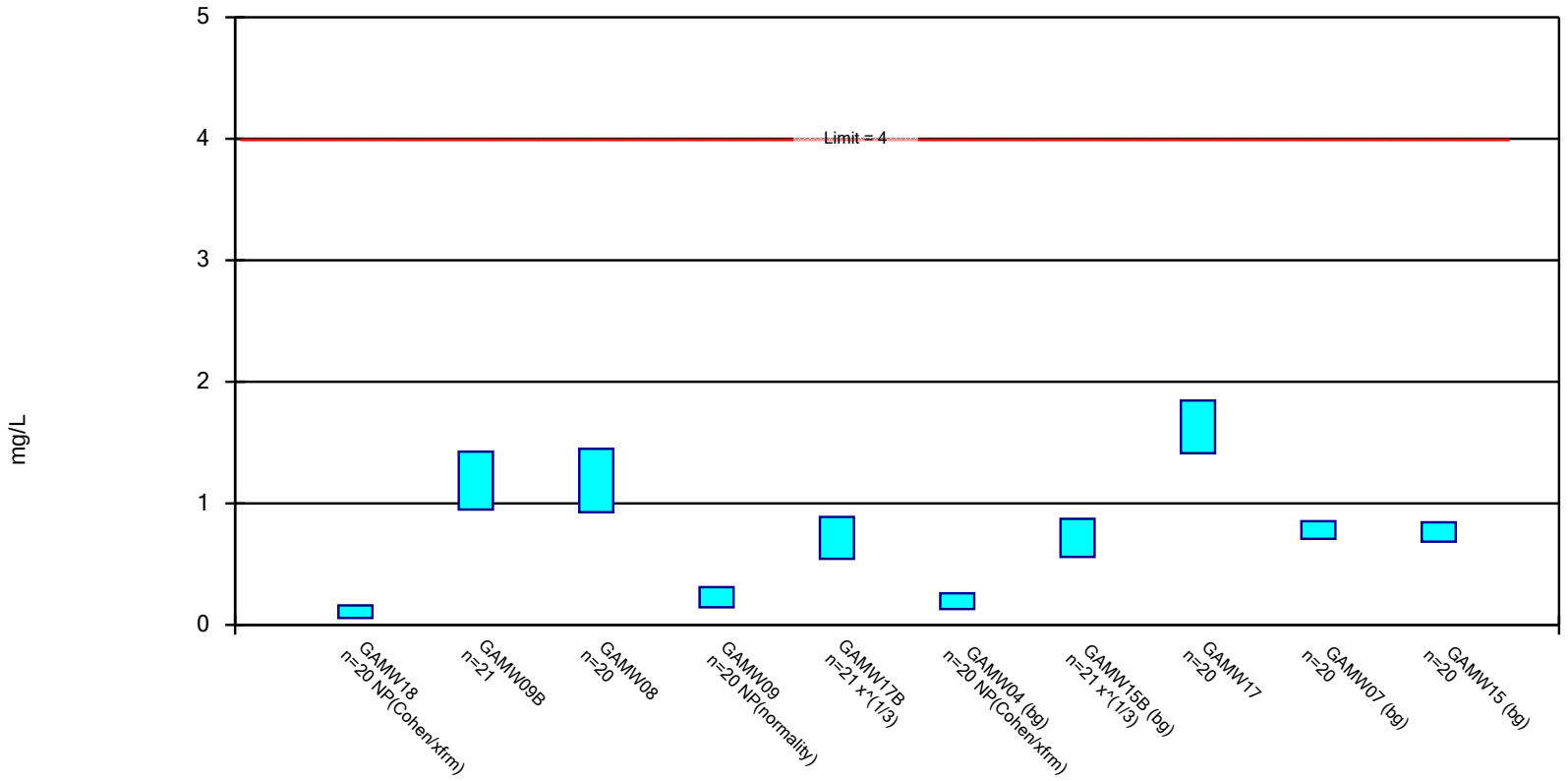


Constituent: Cobalt Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

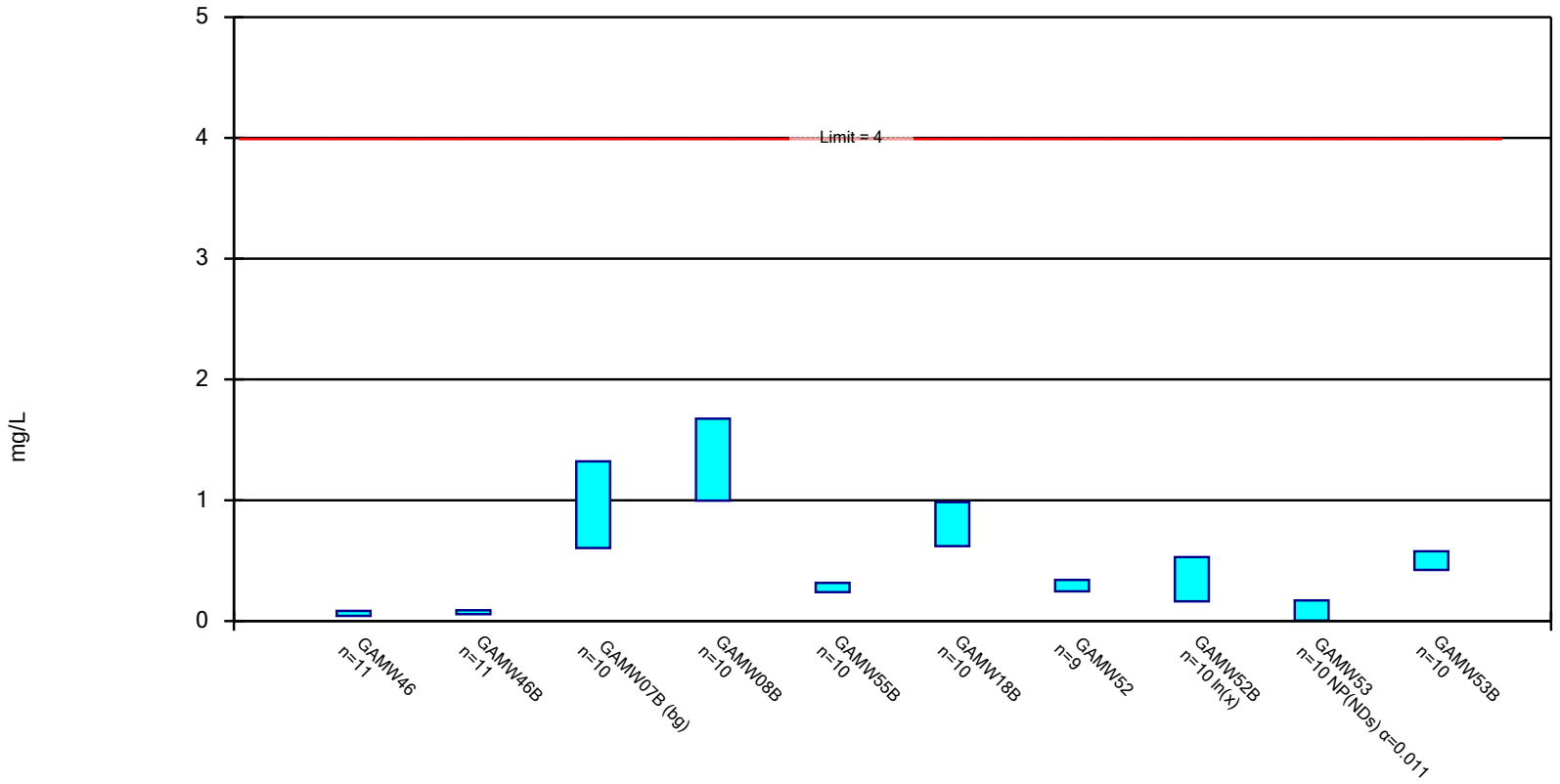


Constituent: Fluoride Analysis Run 2/7/2023 9:17 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

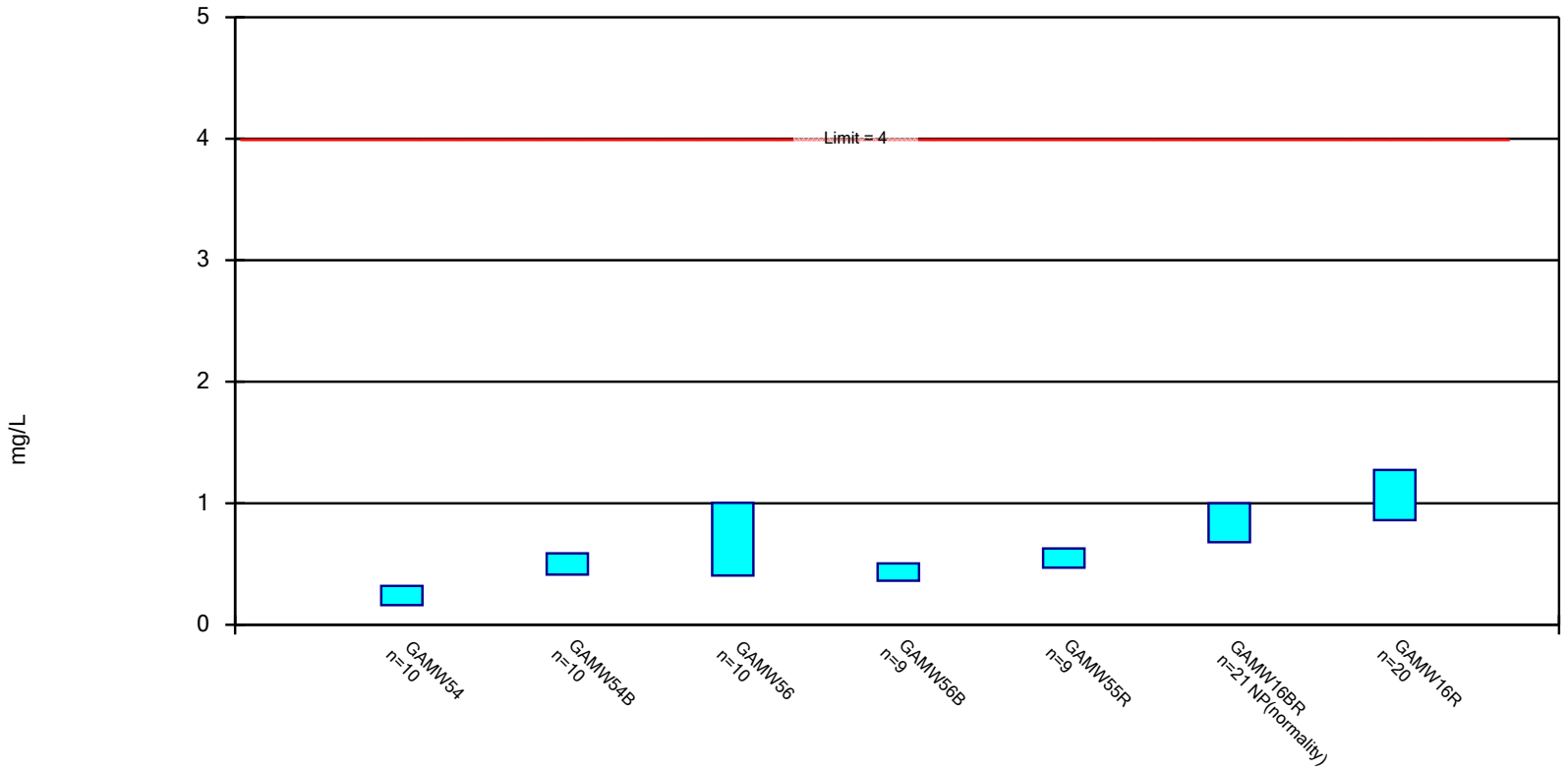


Constituent: Fluoride Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

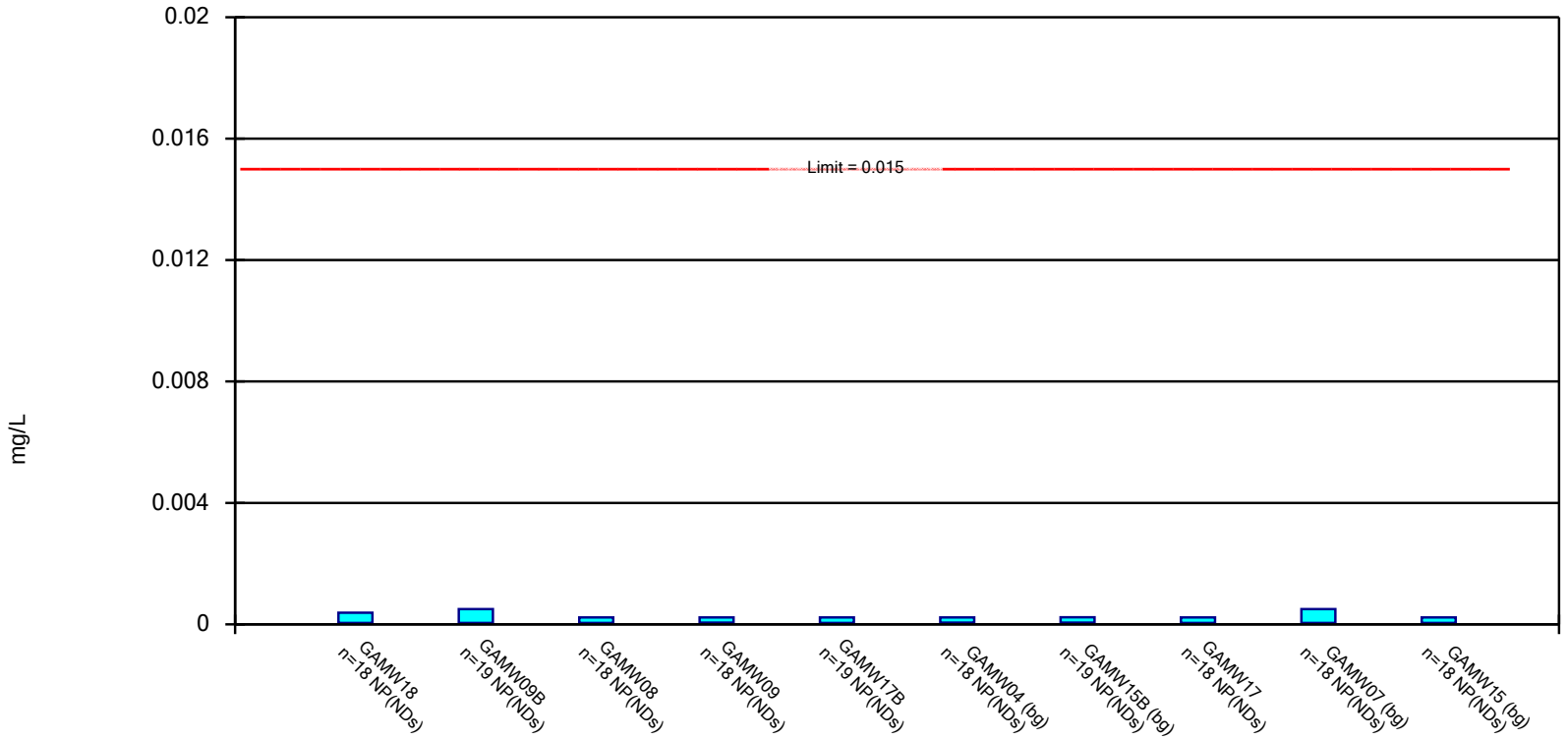


Constituent: Fluoride Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

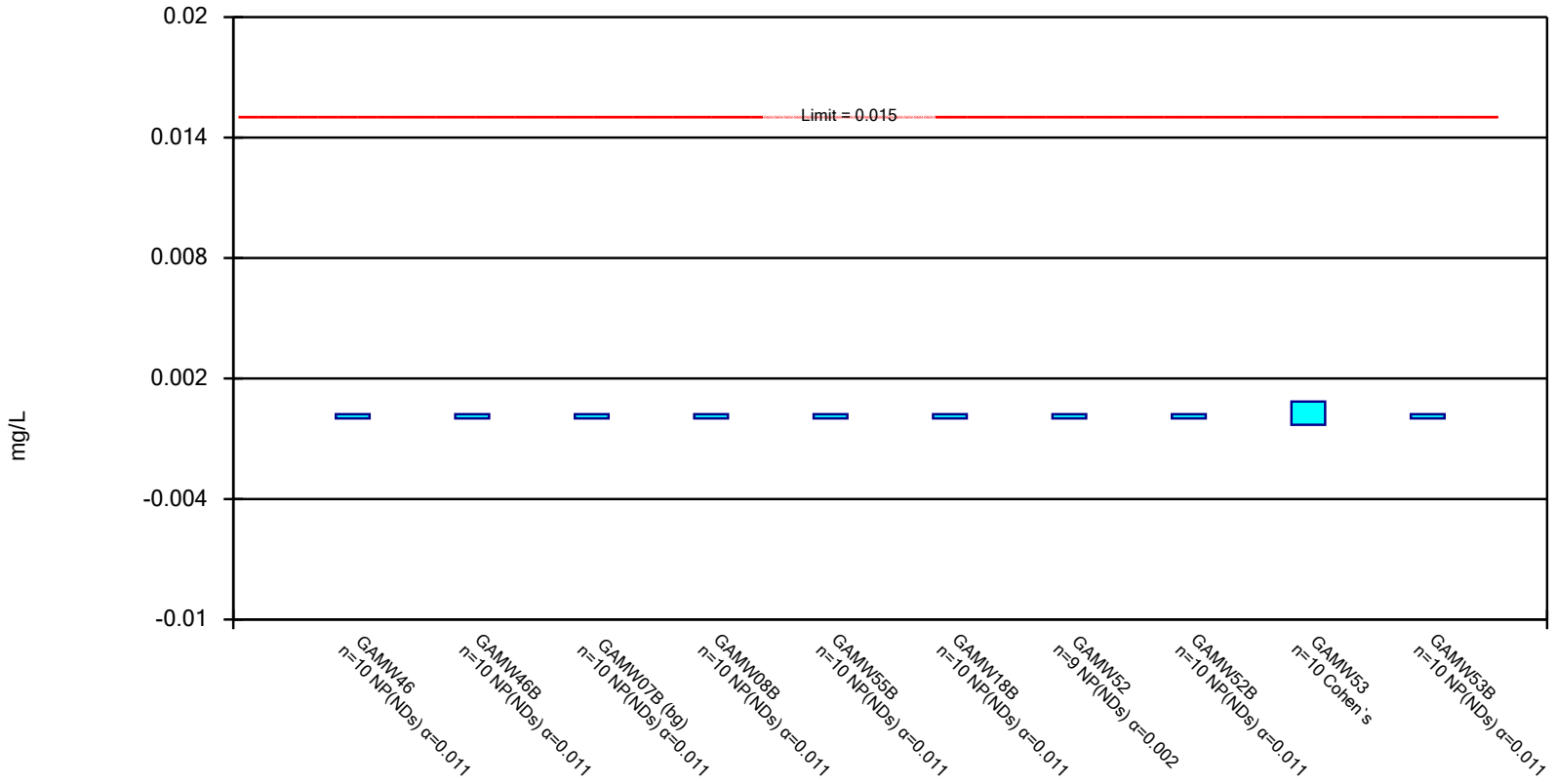


Constituent: Lead Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

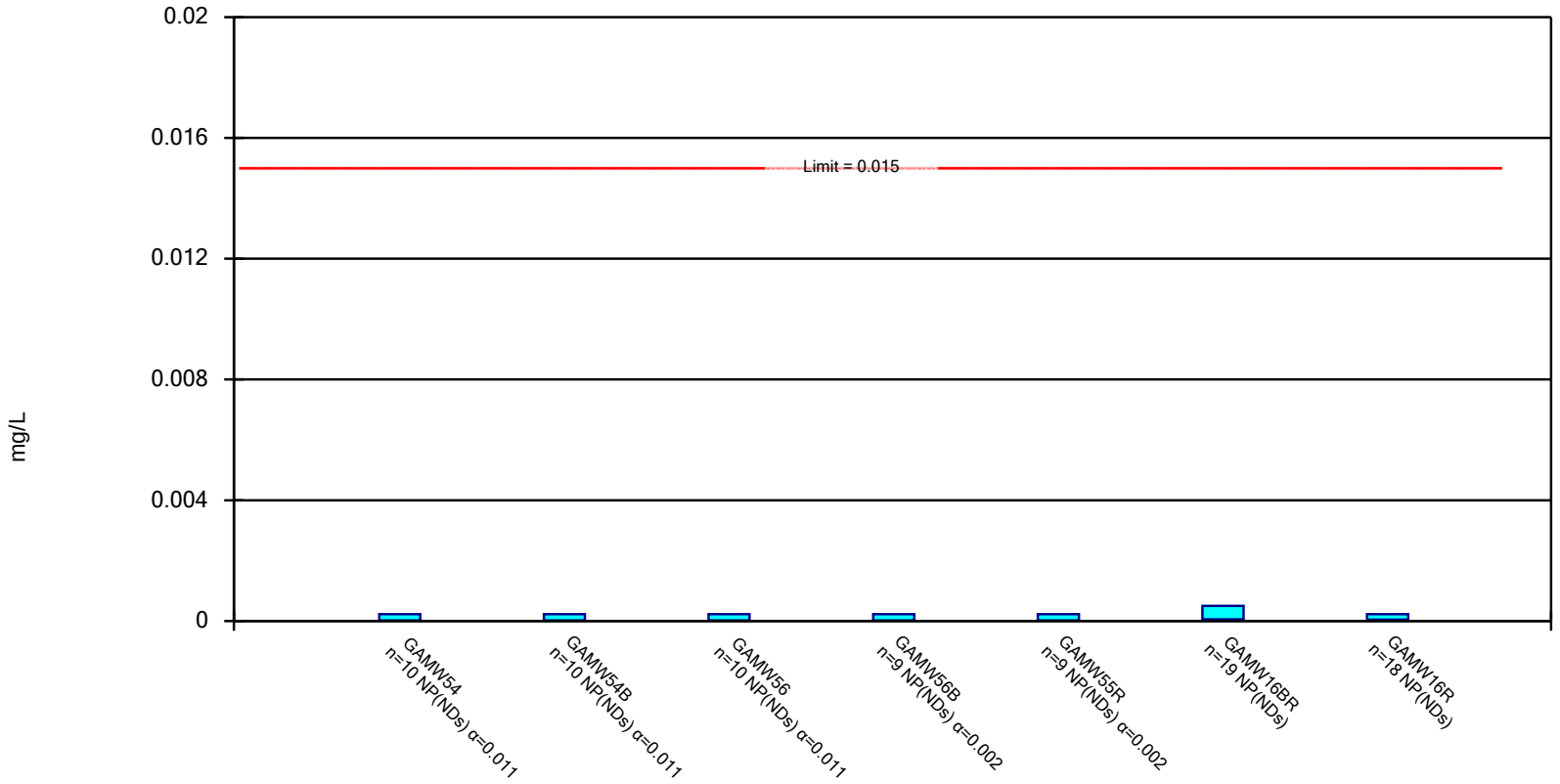


Constituent: Lead Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

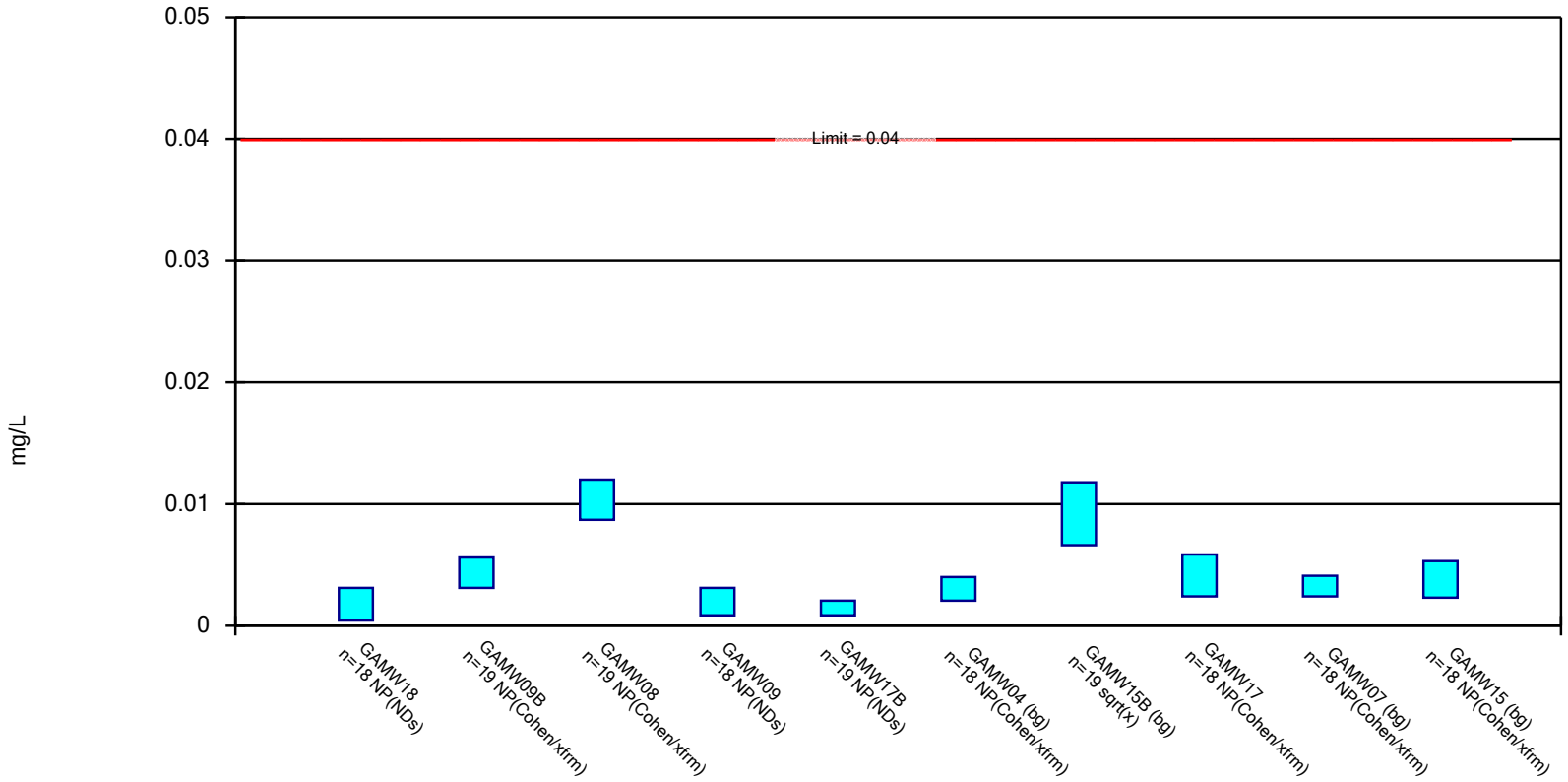


Constituent: Lead Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

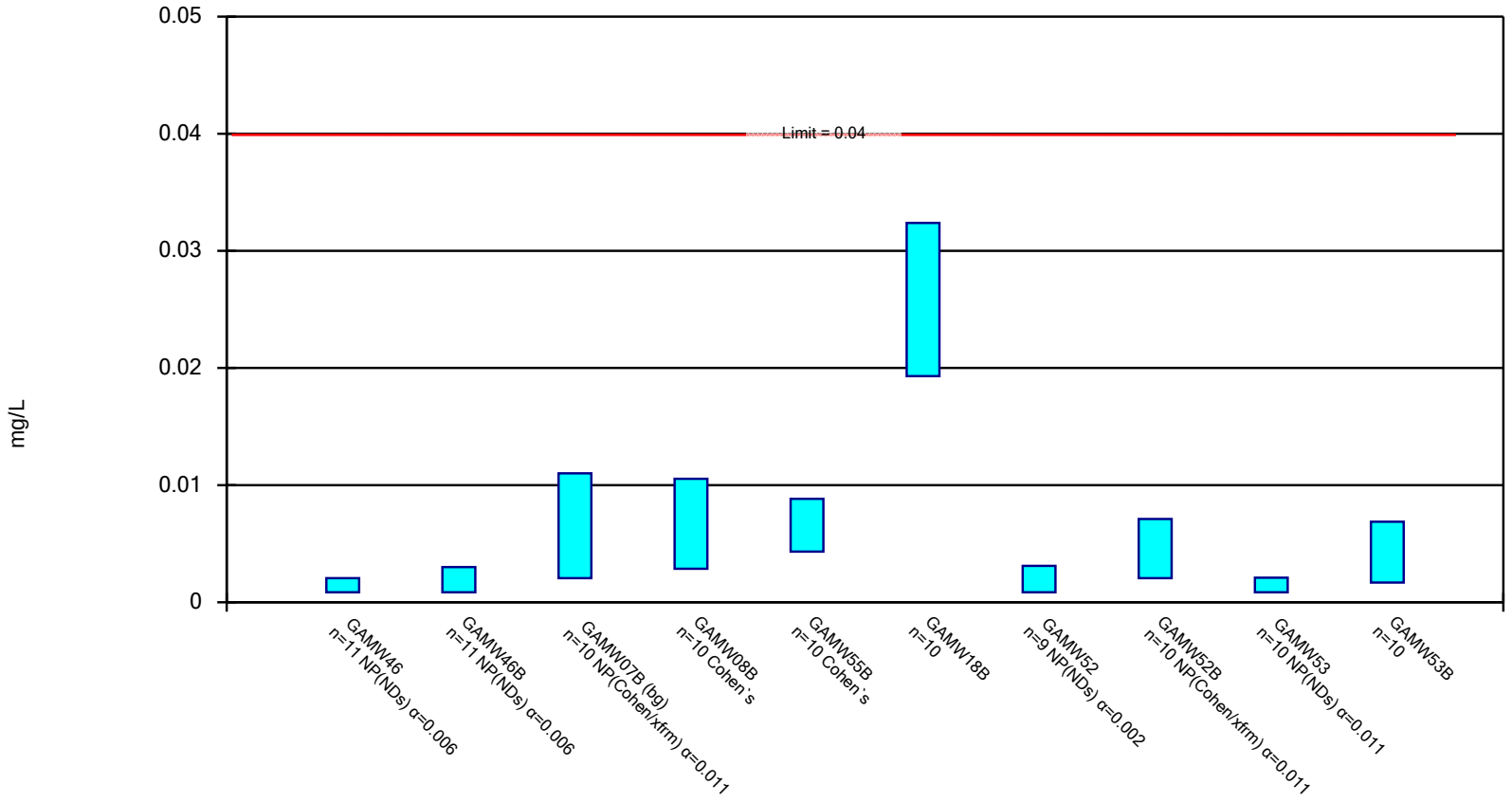


Constituent: Lithium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

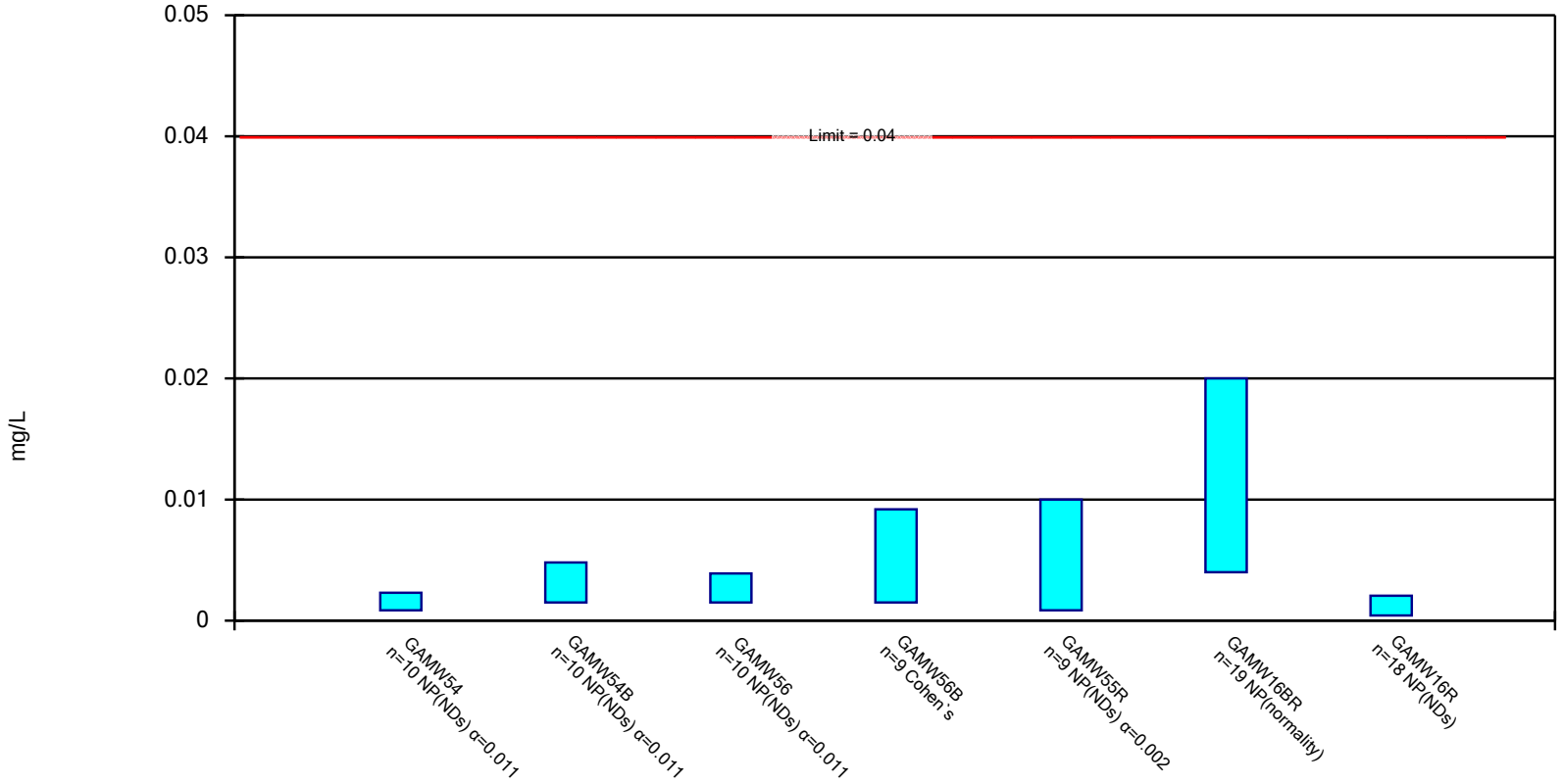


Constituent: Lithium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

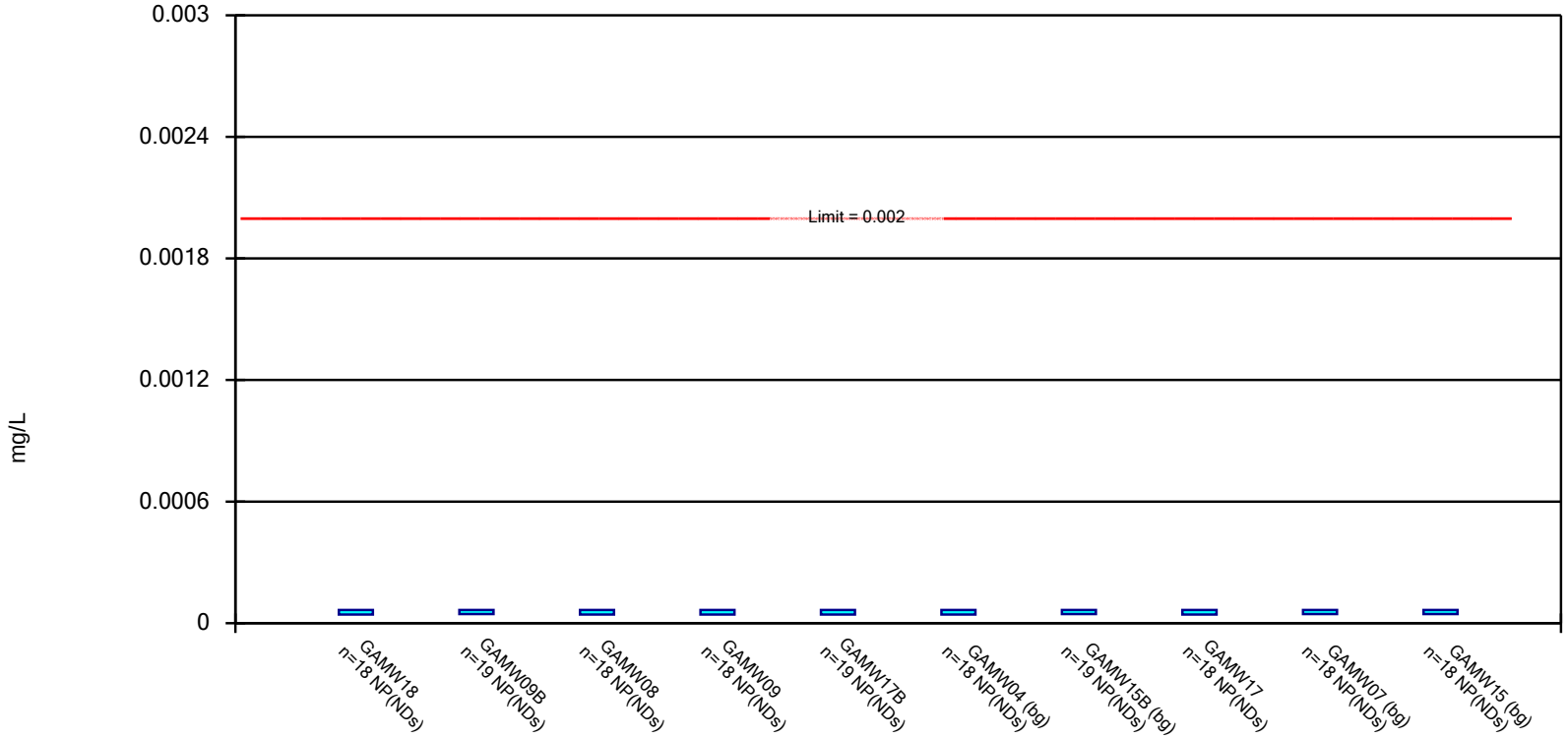


Constituent: Lithium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

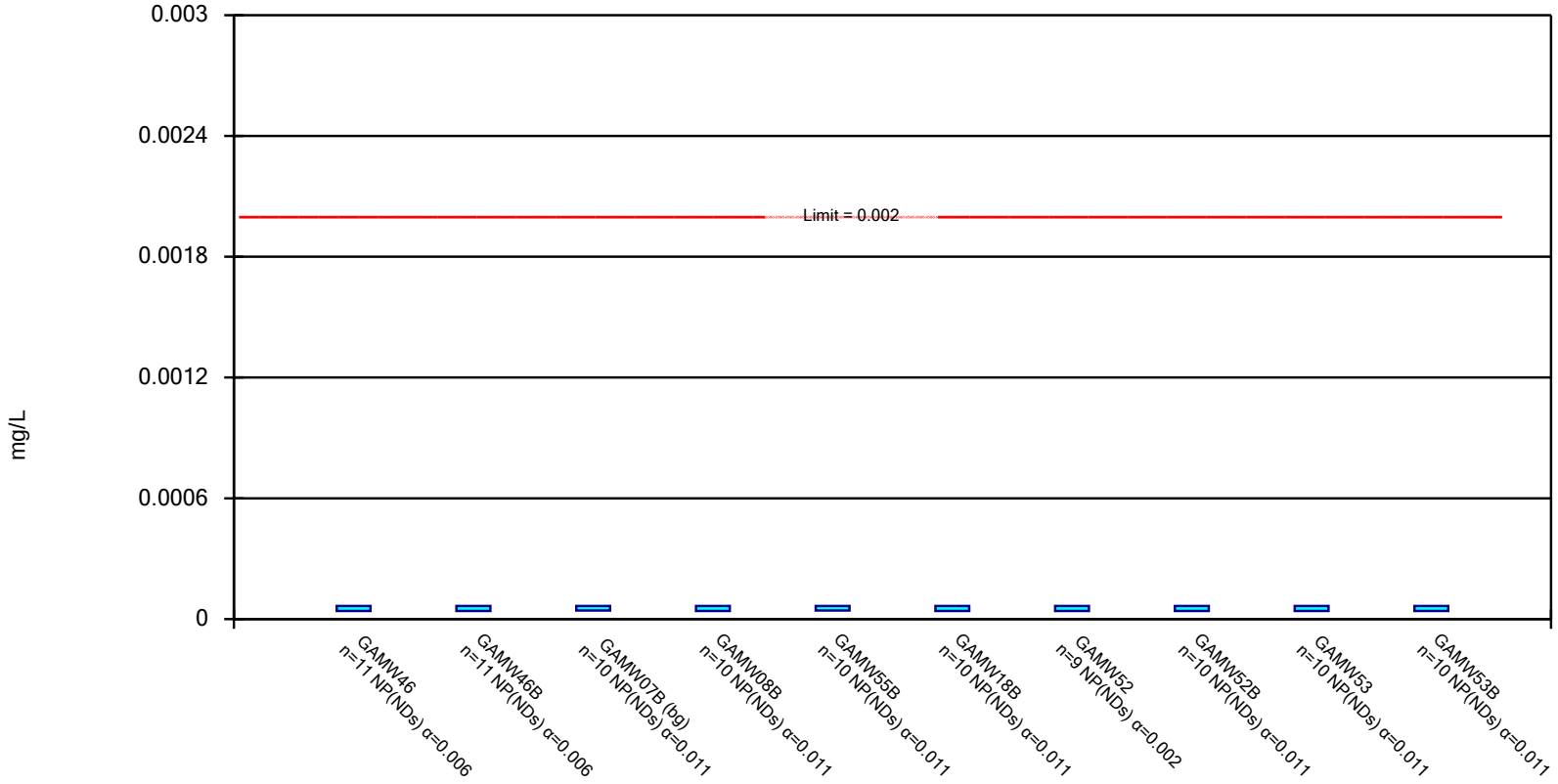


Constituent: Mercury Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

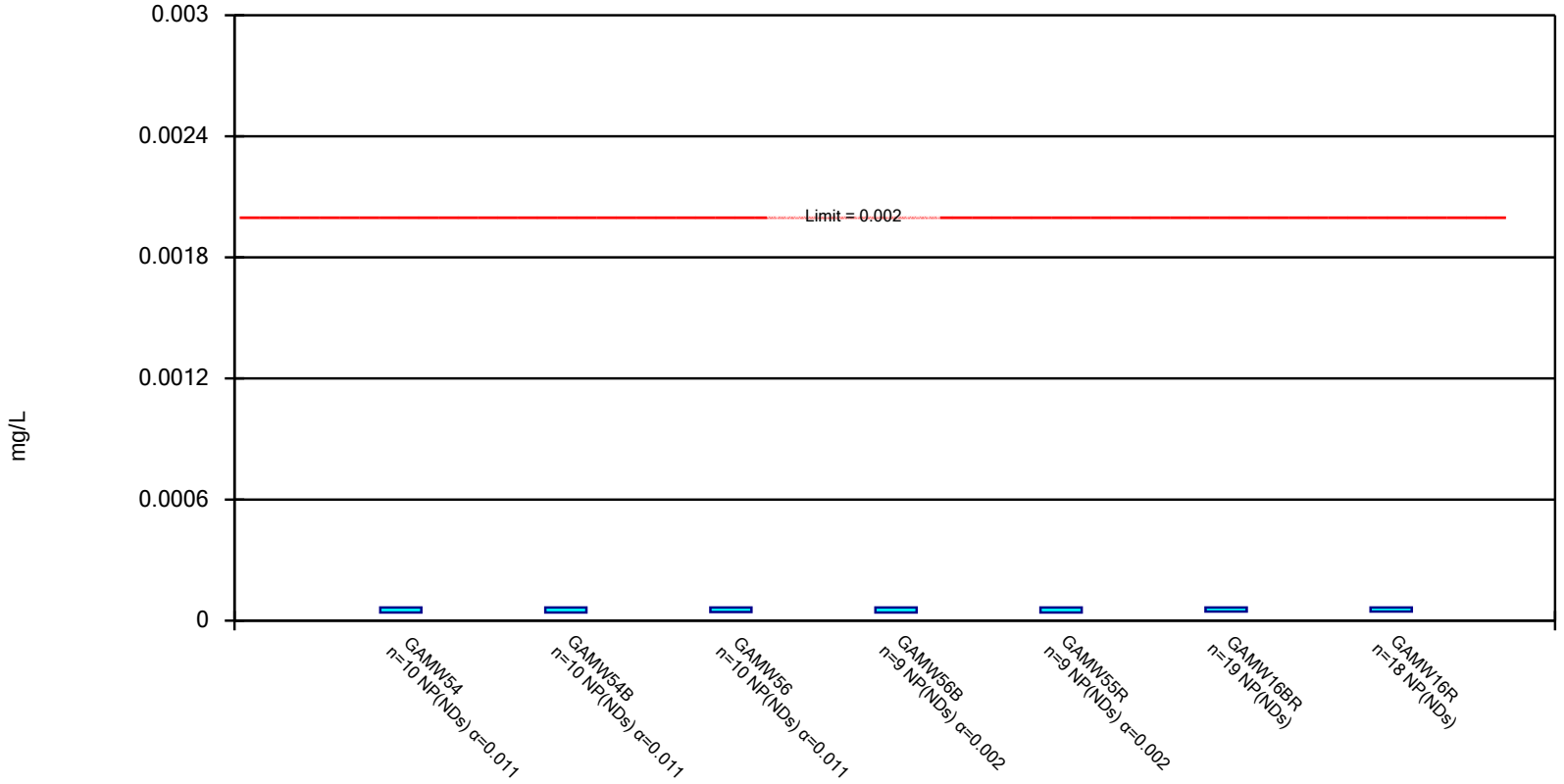


Constituent: Mercury Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

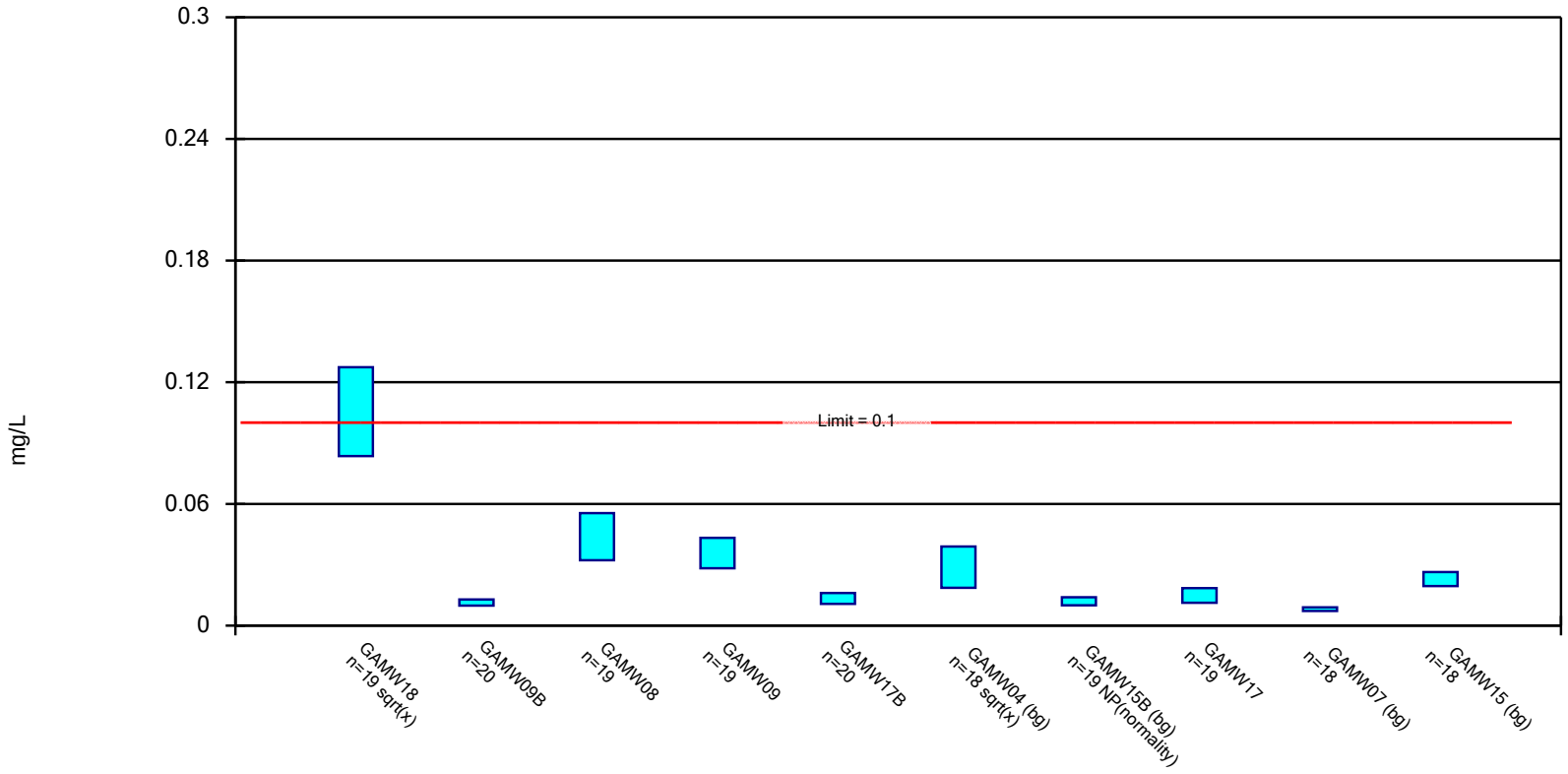


Constituent: Mercury Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

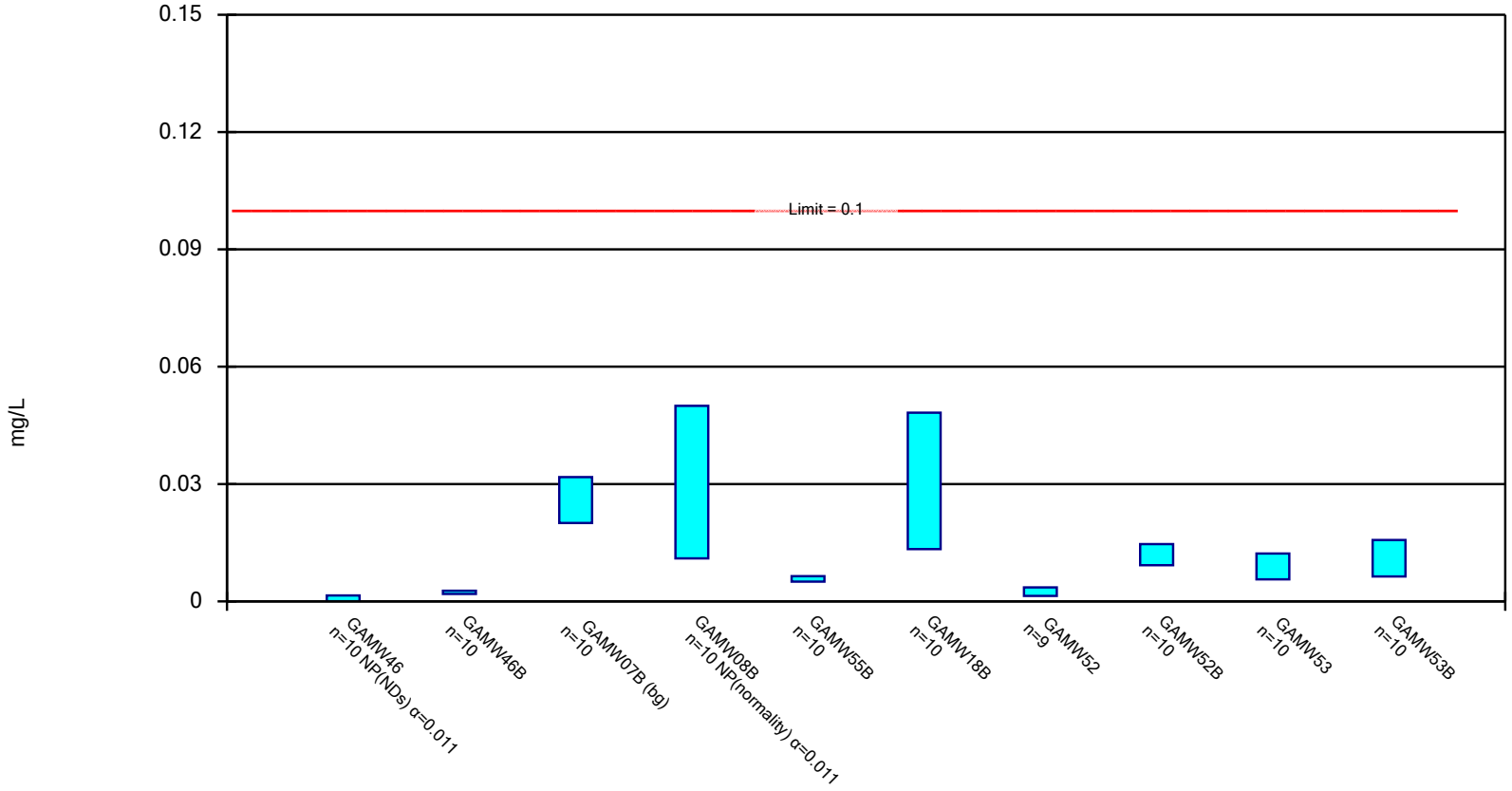


Constituent: Molybdenum Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

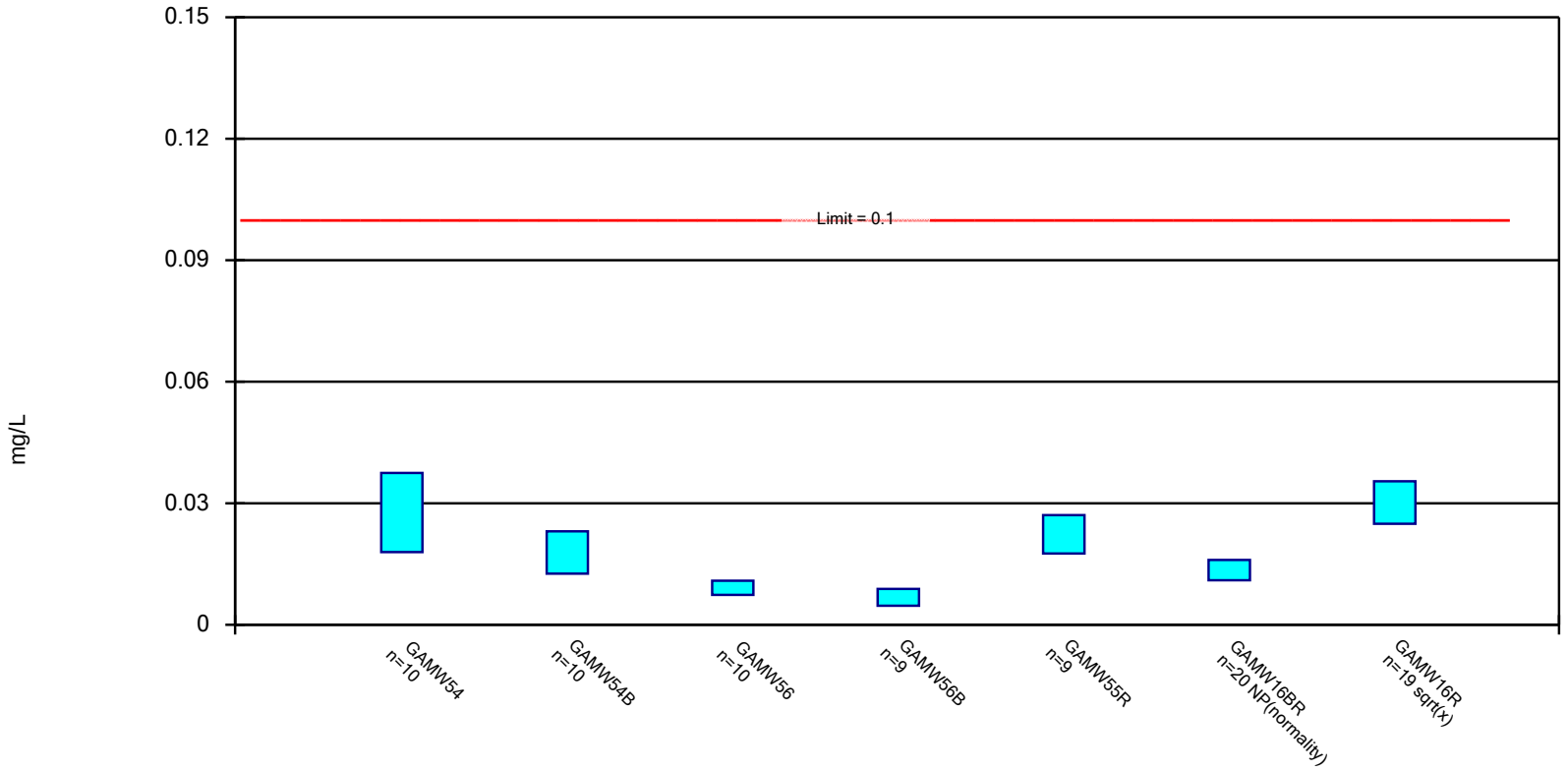


Constituent: Molybdenum Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

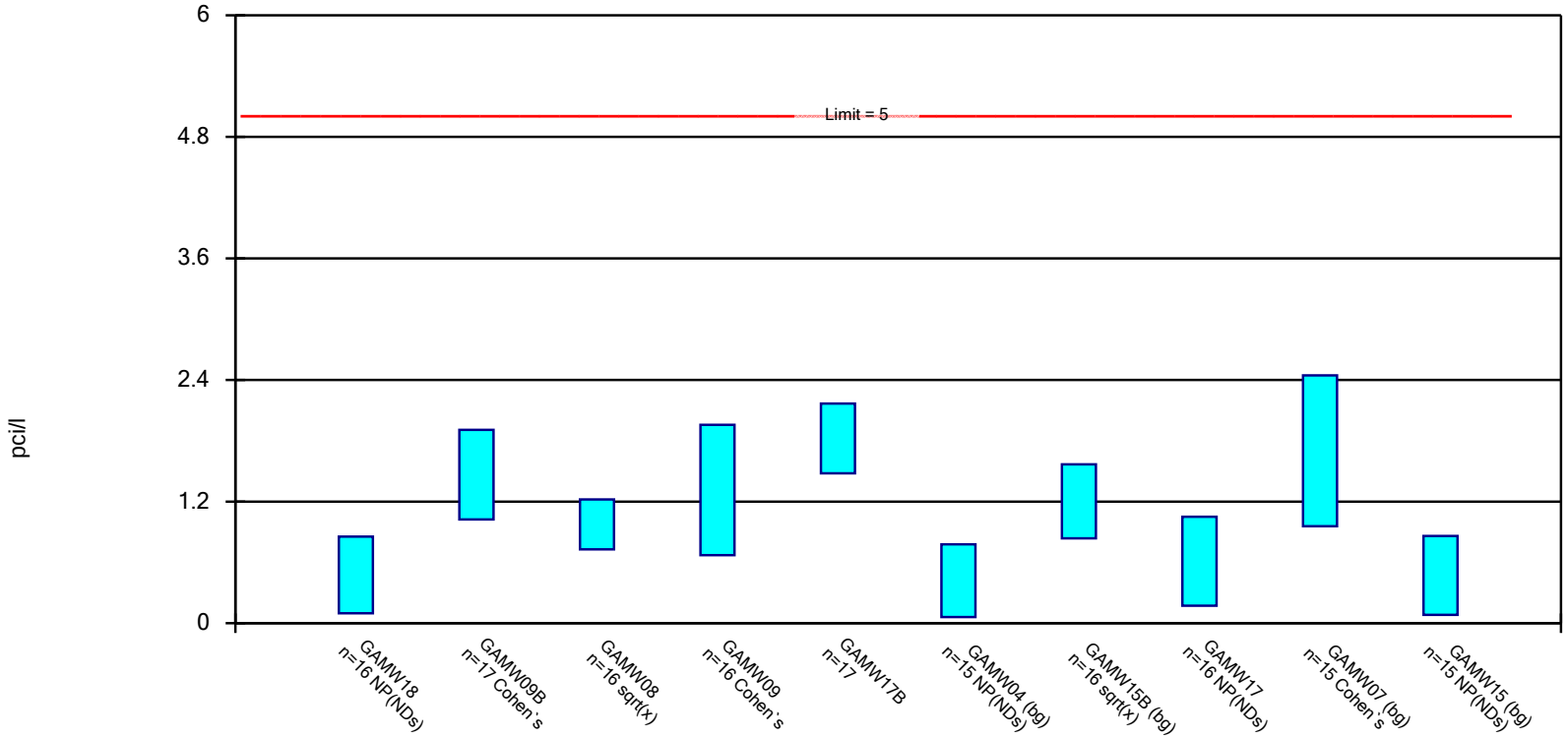


Constituent: Molybdenum Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

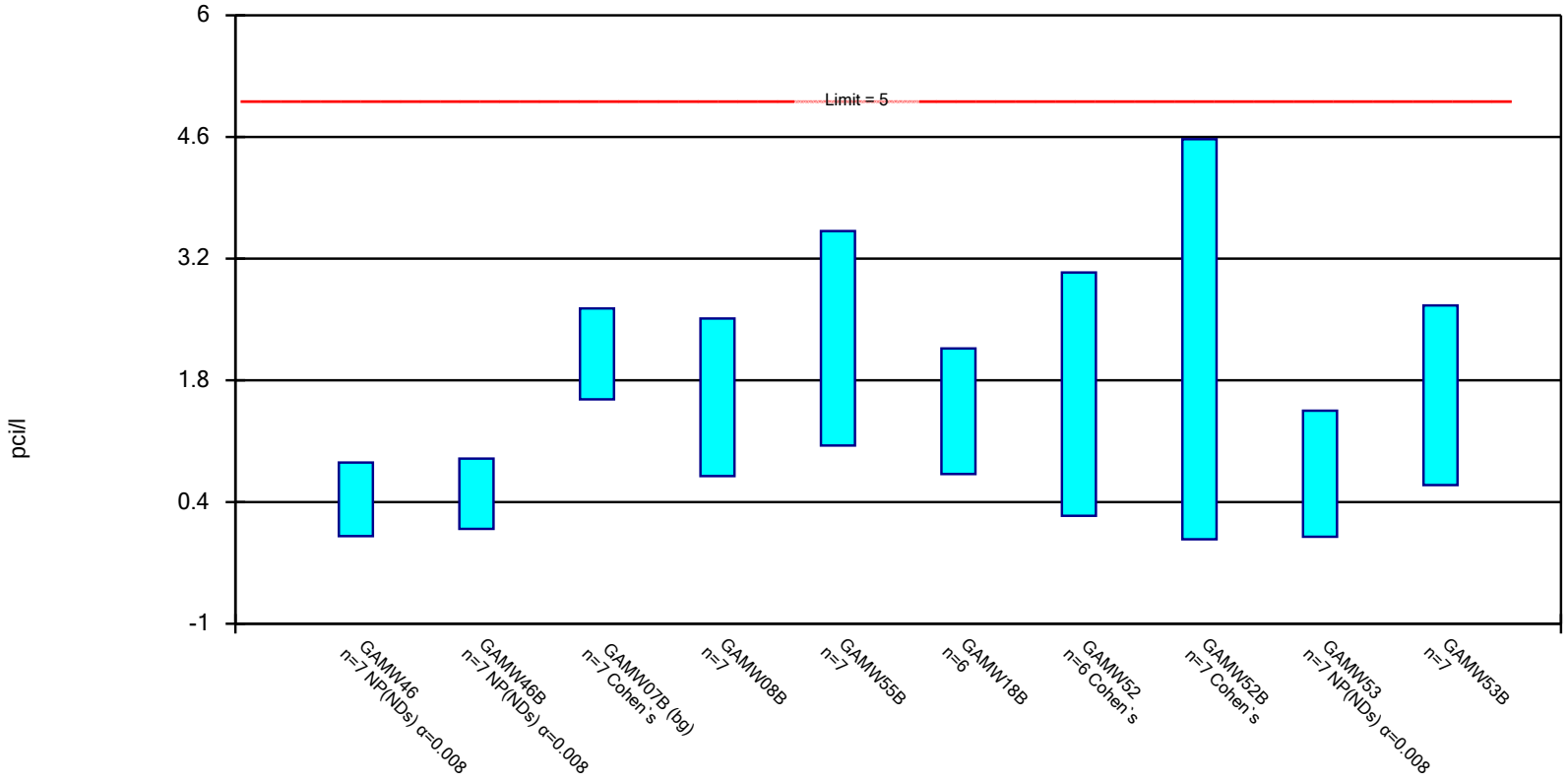


Constituent: Radium 226 + 228 Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

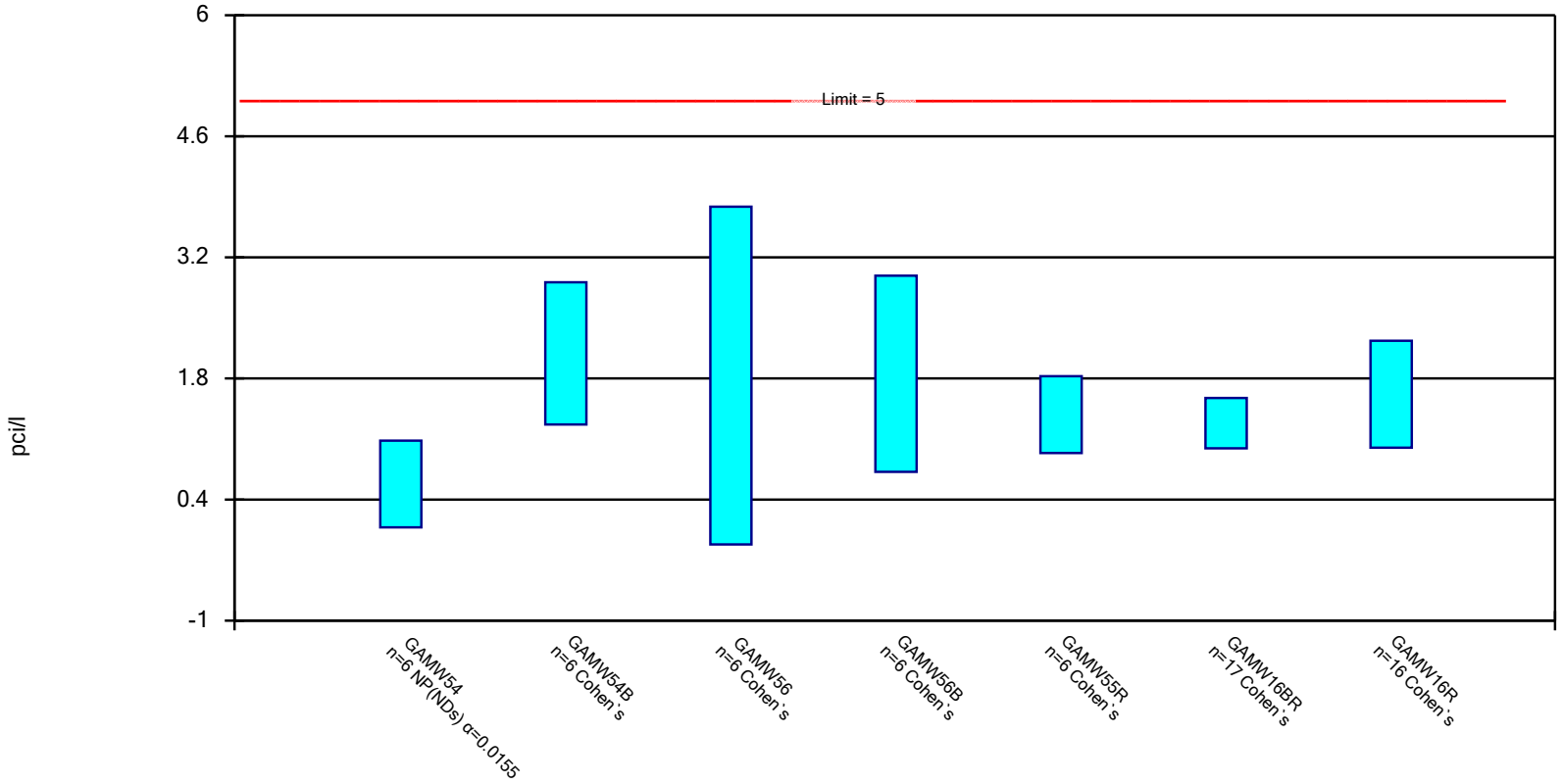


Constituent: Radium 226 + 228 Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

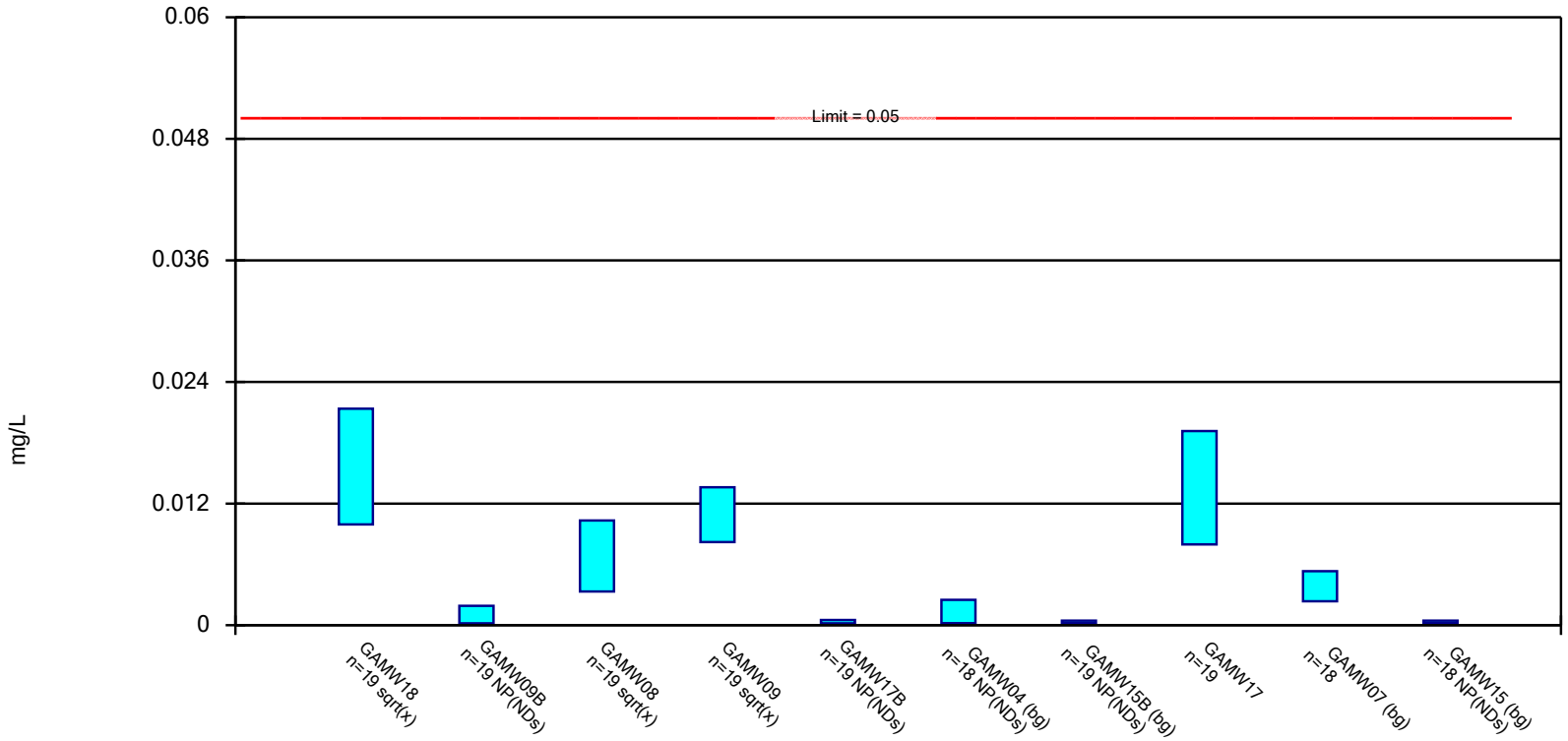


Constituent: Radium 226 + 228 Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

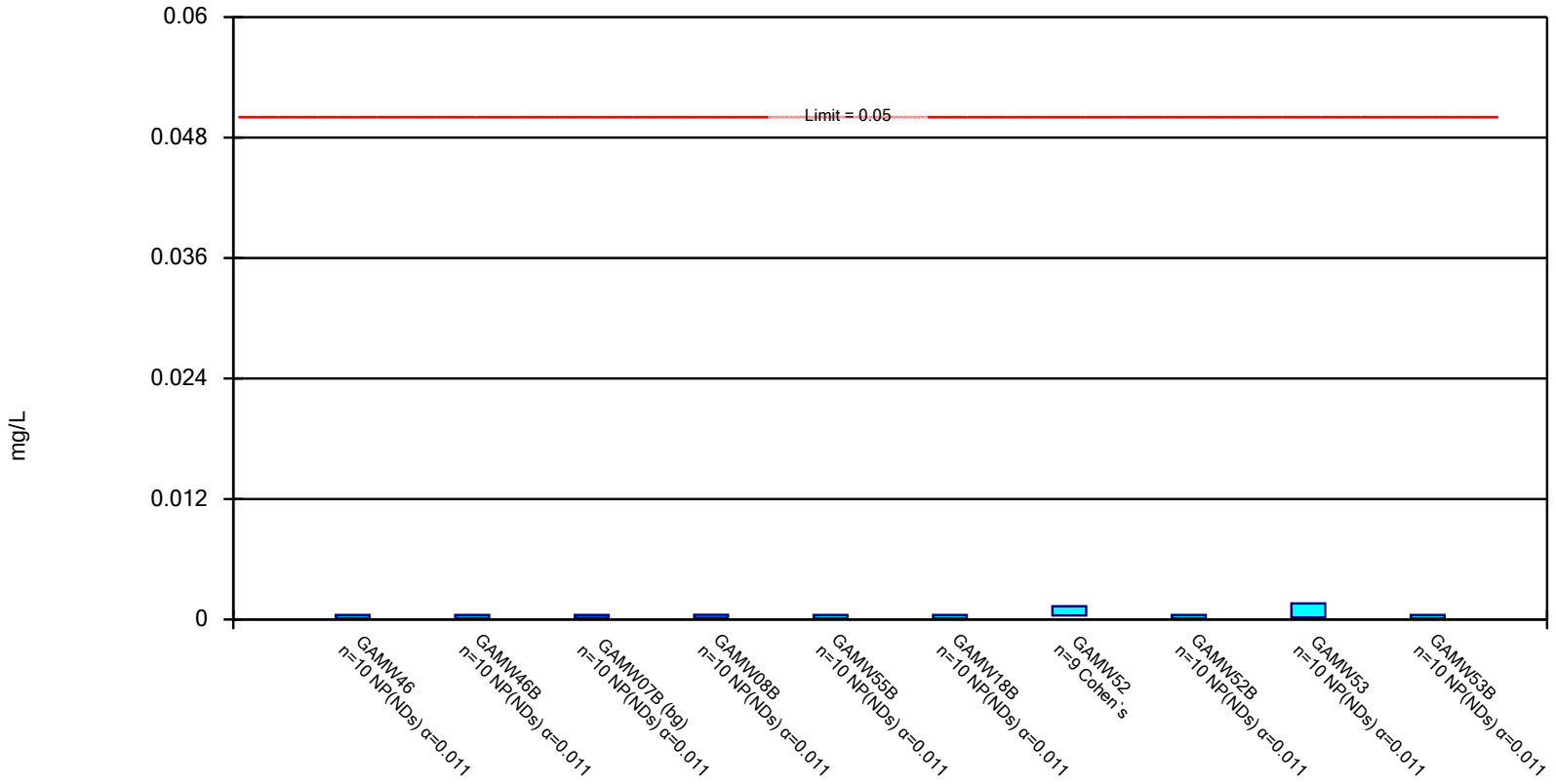


Constituent: Selenium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

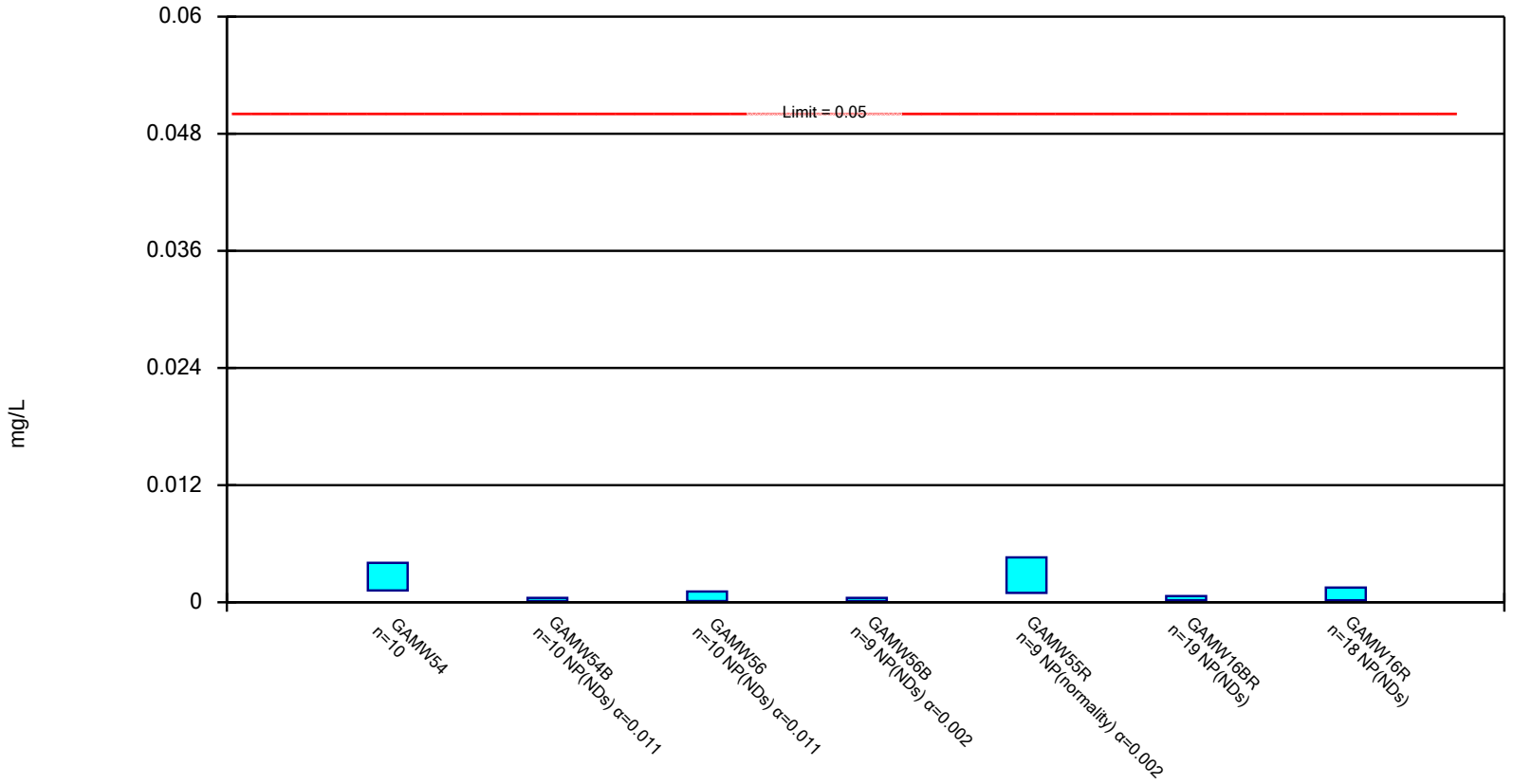


Constituent: Selenium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

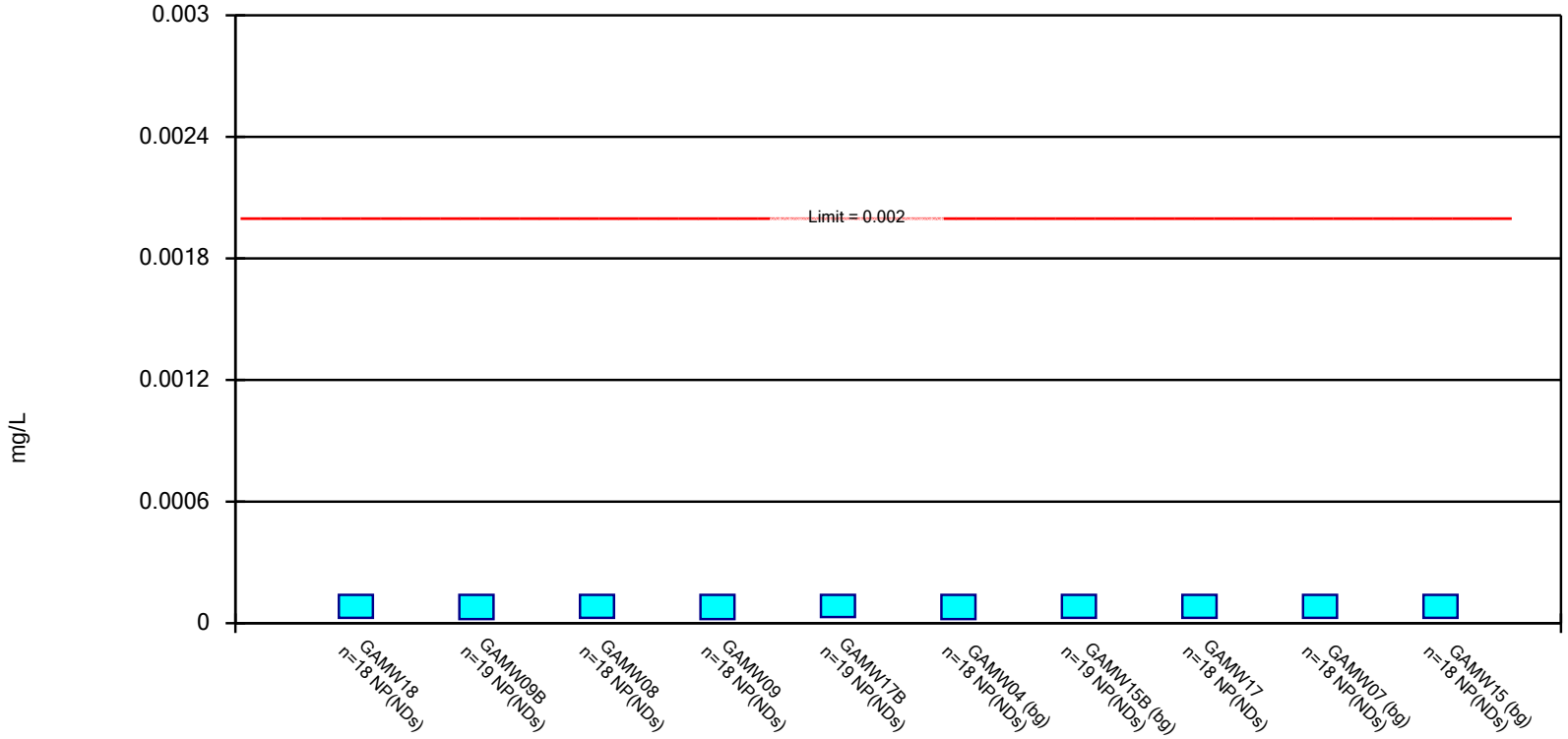


Constituent: Selenium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

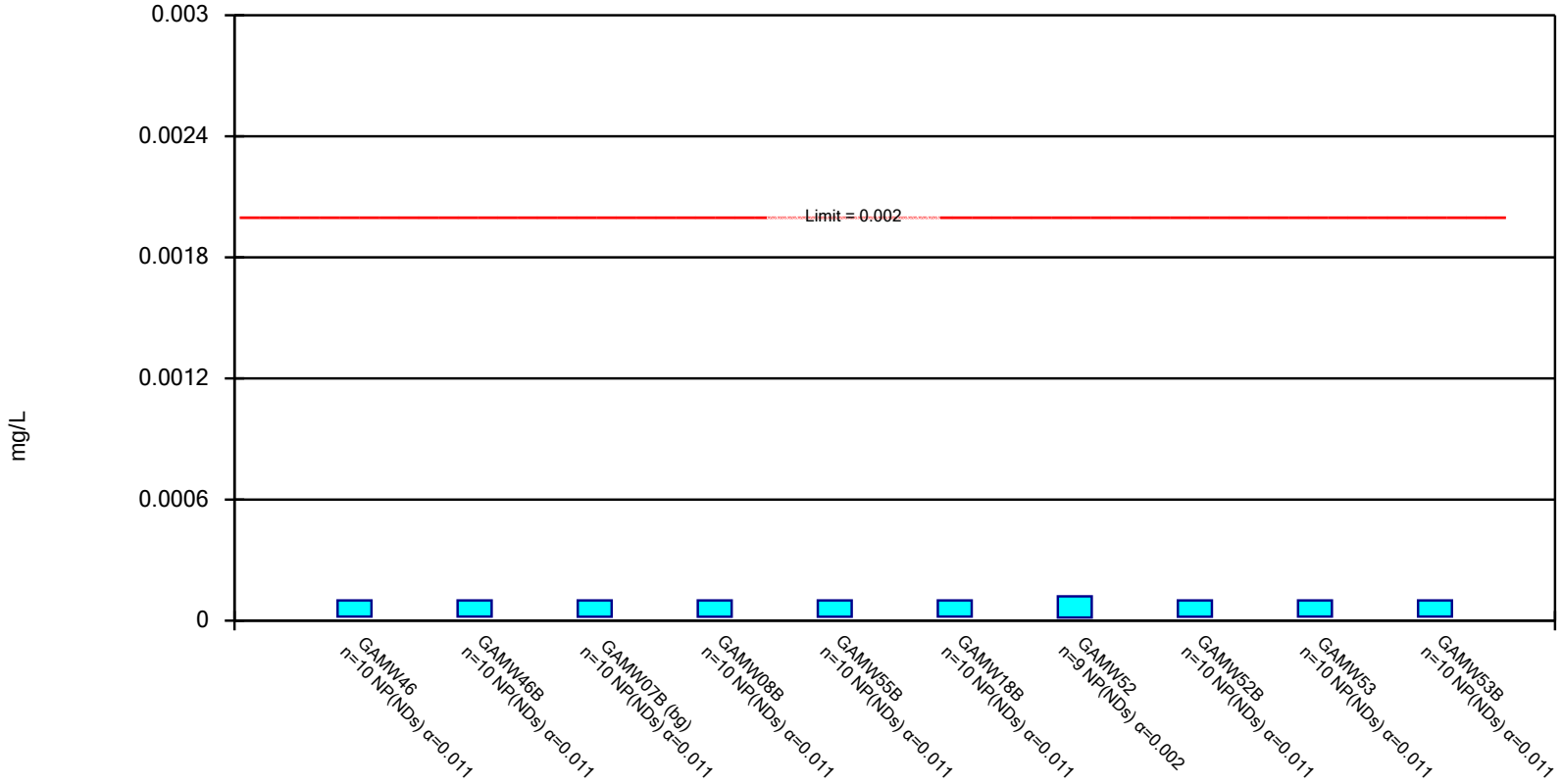


Constituent: Thallium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

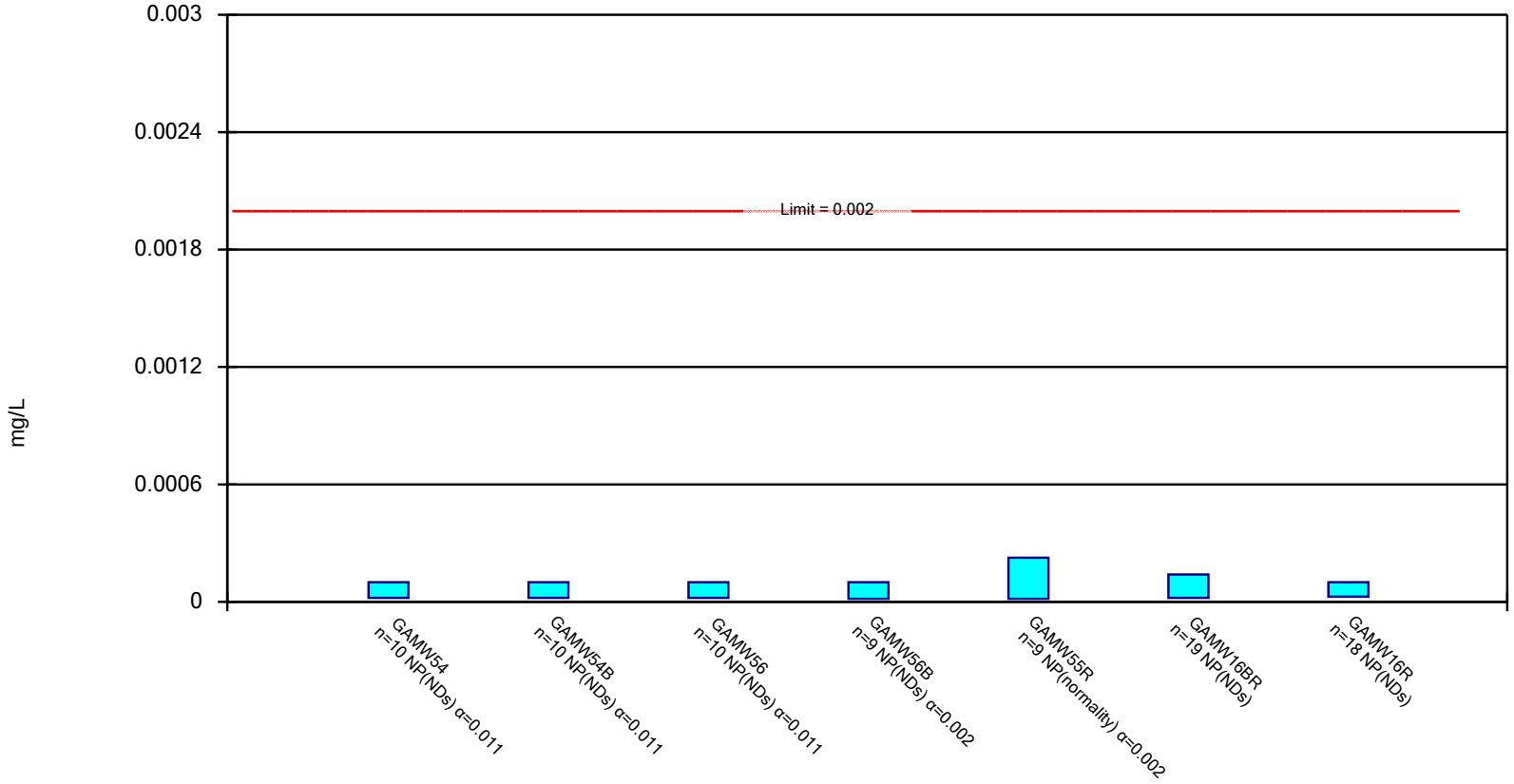


Constituent: Thallium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



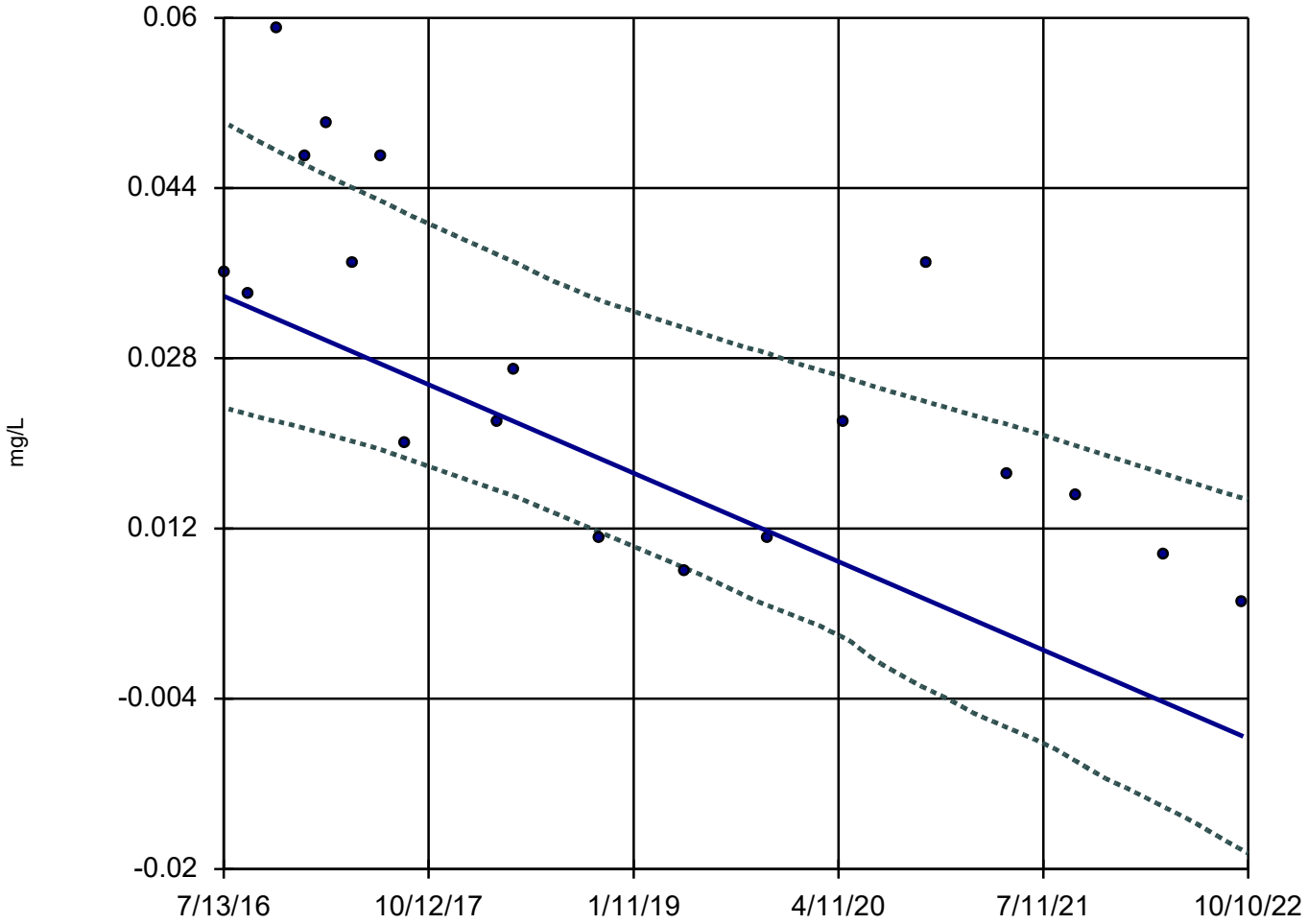
Constituent: Thallium Analysis Run 2/7/2023 9:18 AM View: MSRB, MCWB, Drying Area

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW

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Sen's Slope and 95% Confidence Band

GAMW08



n = 19

Slope = -0.006658 units per year.

Mann-Kendall statistic = -95 critical = -68

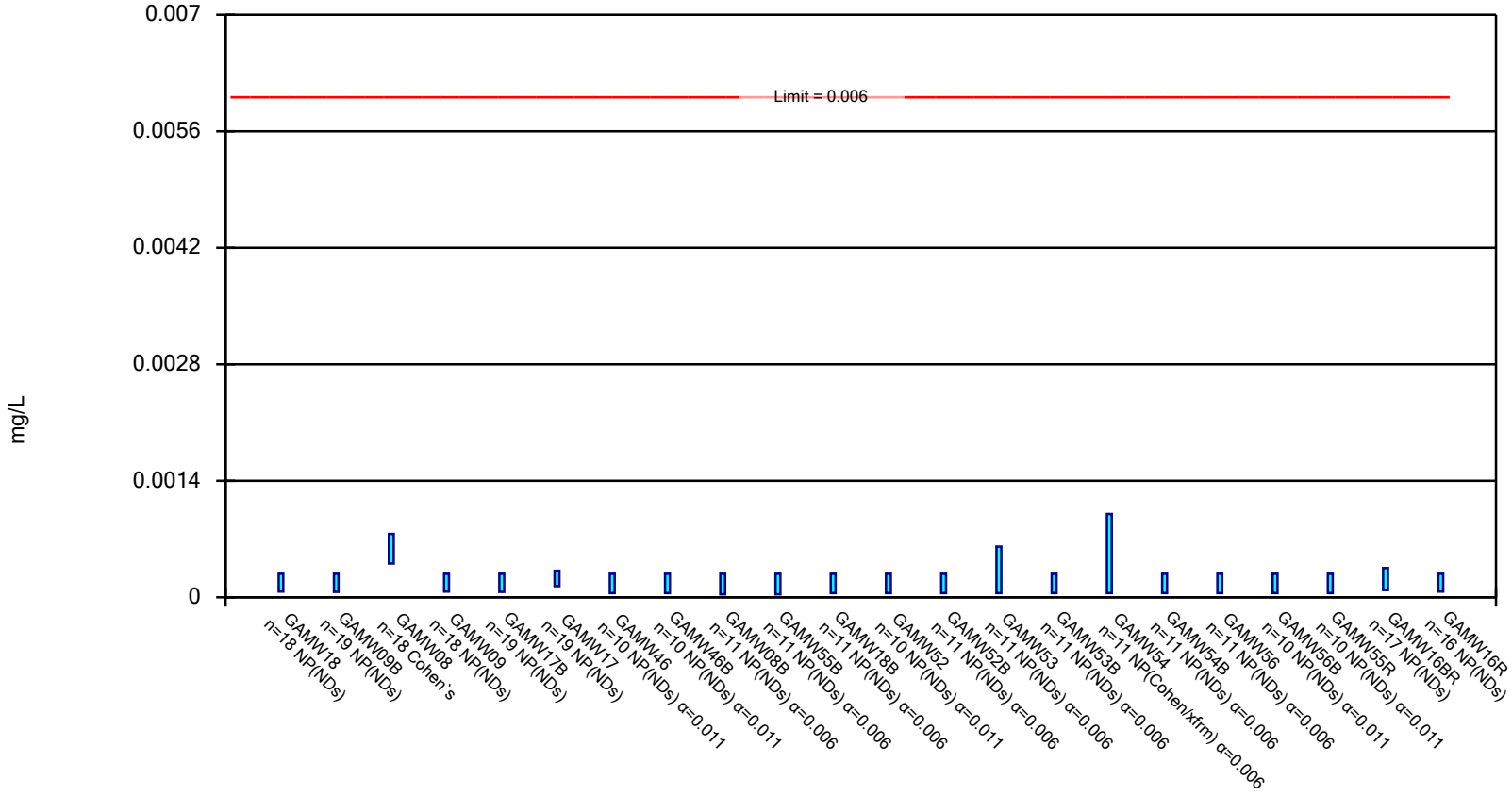
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Cobalt Analysis Run 2/6/2023 12:00 PM View: Multi-Unit

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_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.

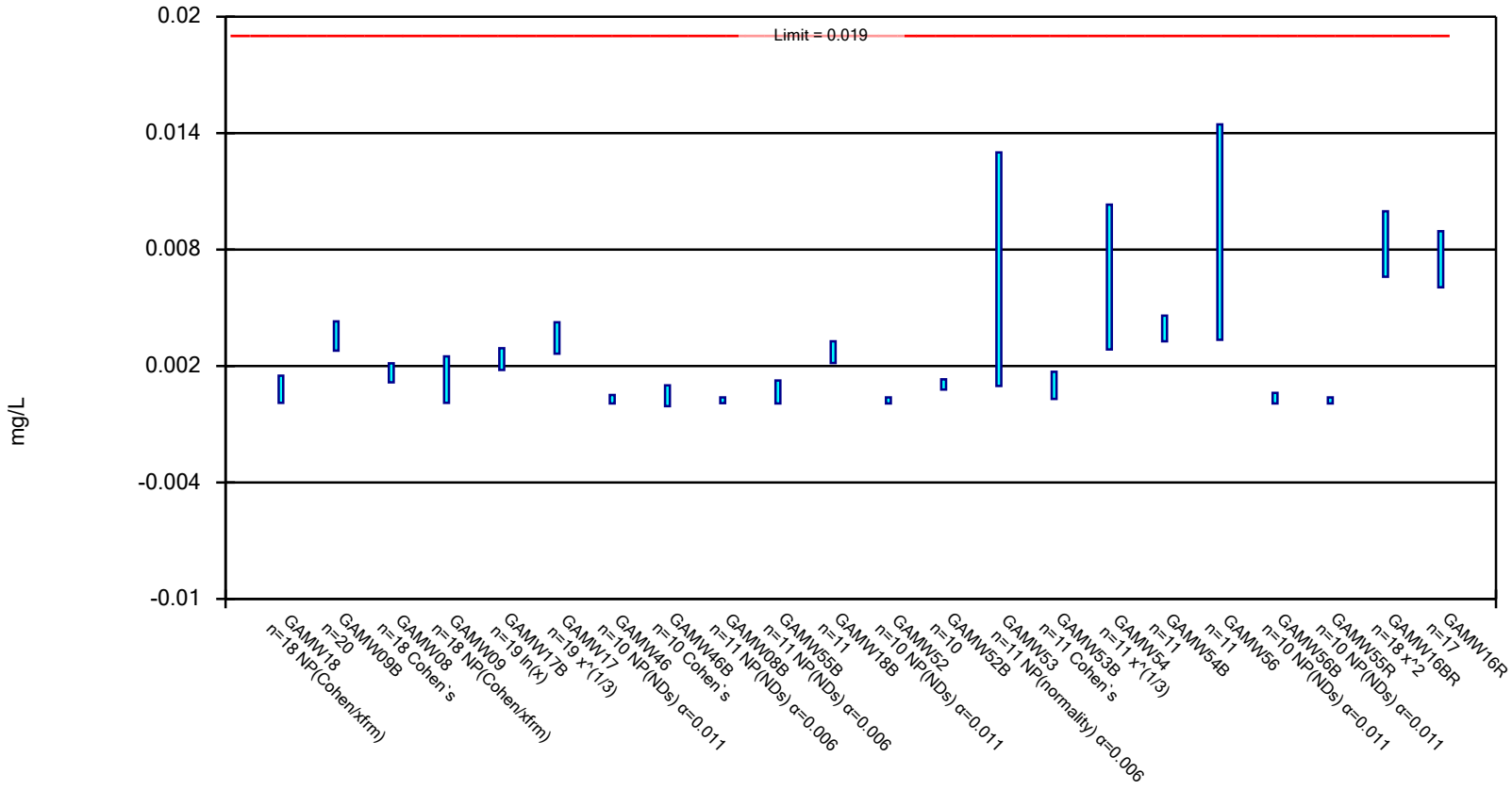


Constituent: Antimony Analysis Run 8/2/2023 1:47 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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.

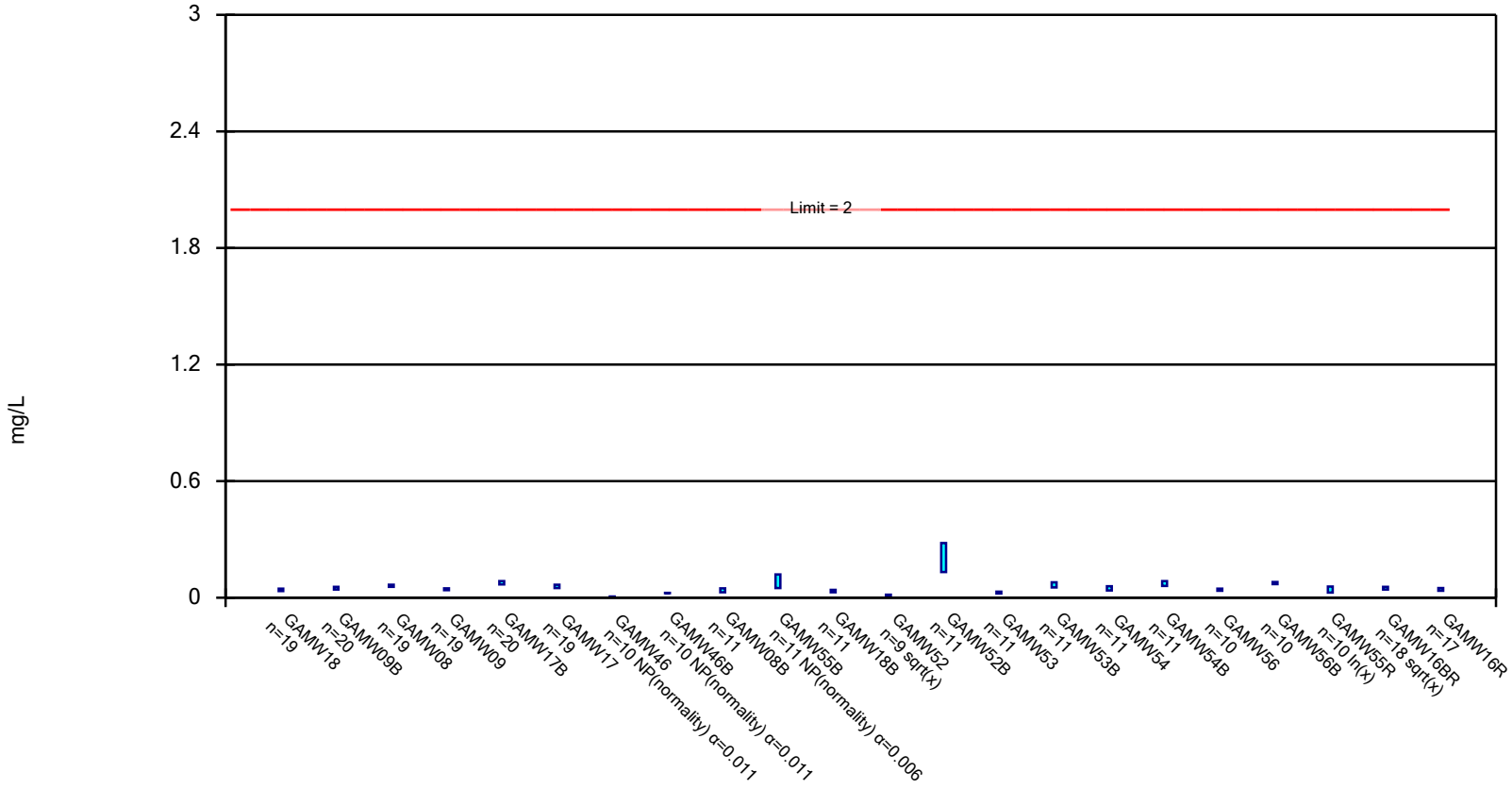


Constituent: Arsenic Analysis Run 8/2/2023 1:47 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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.

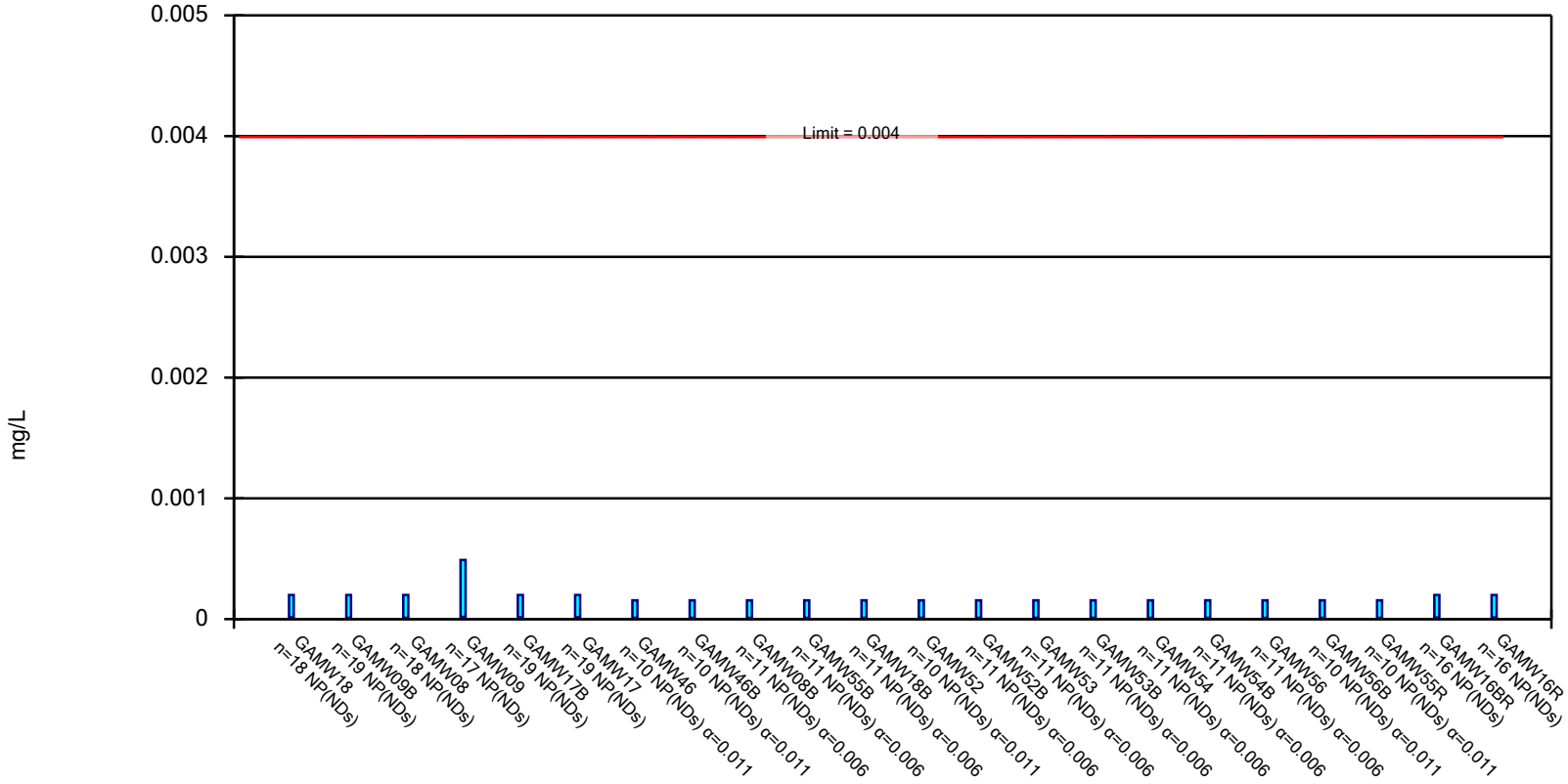


Constituent: Barium Analysis Run 8/2/2023 1:47 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

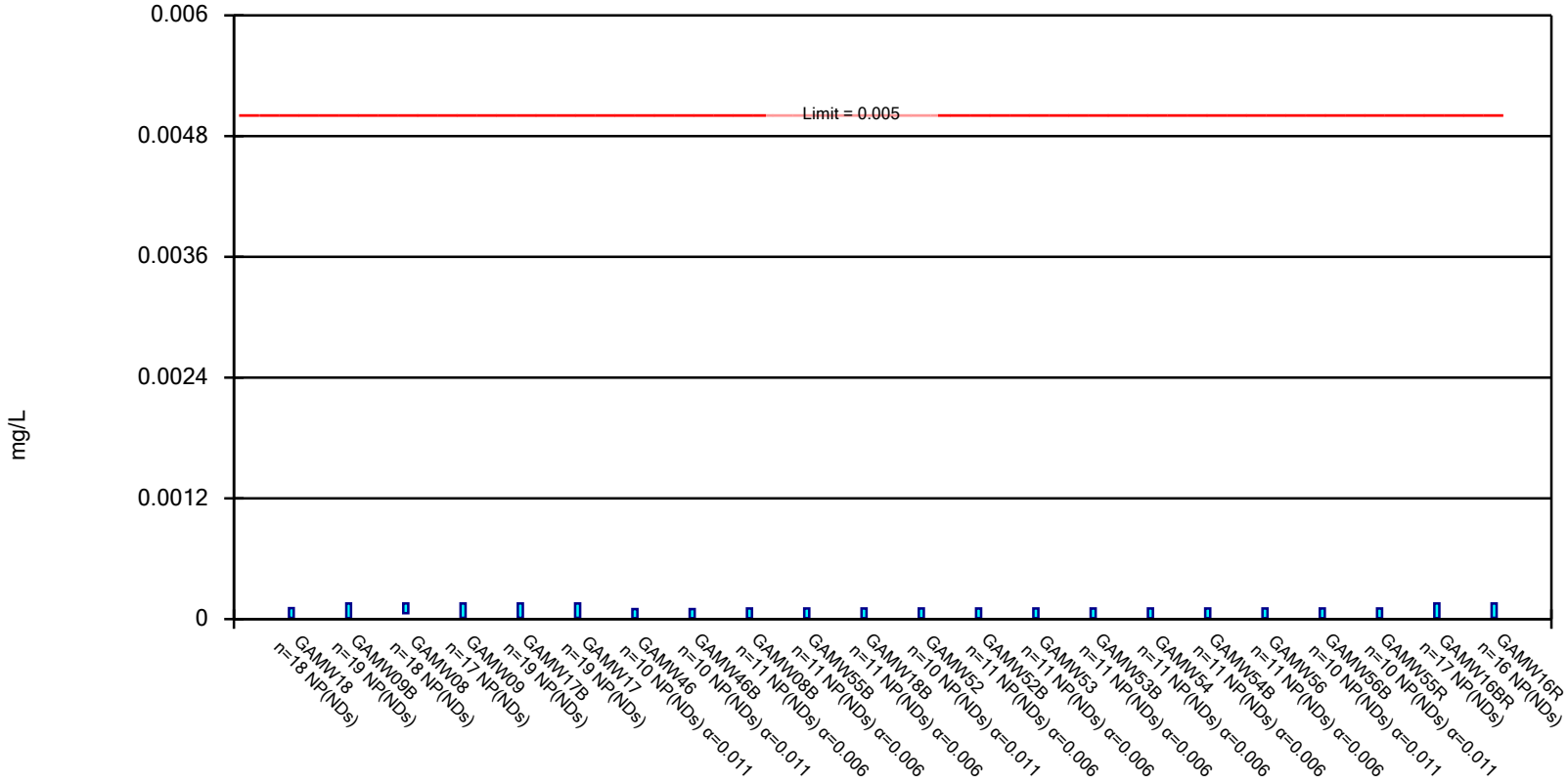


Constituent: Beryllium Analysis Run 8/2/2023 1:47 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

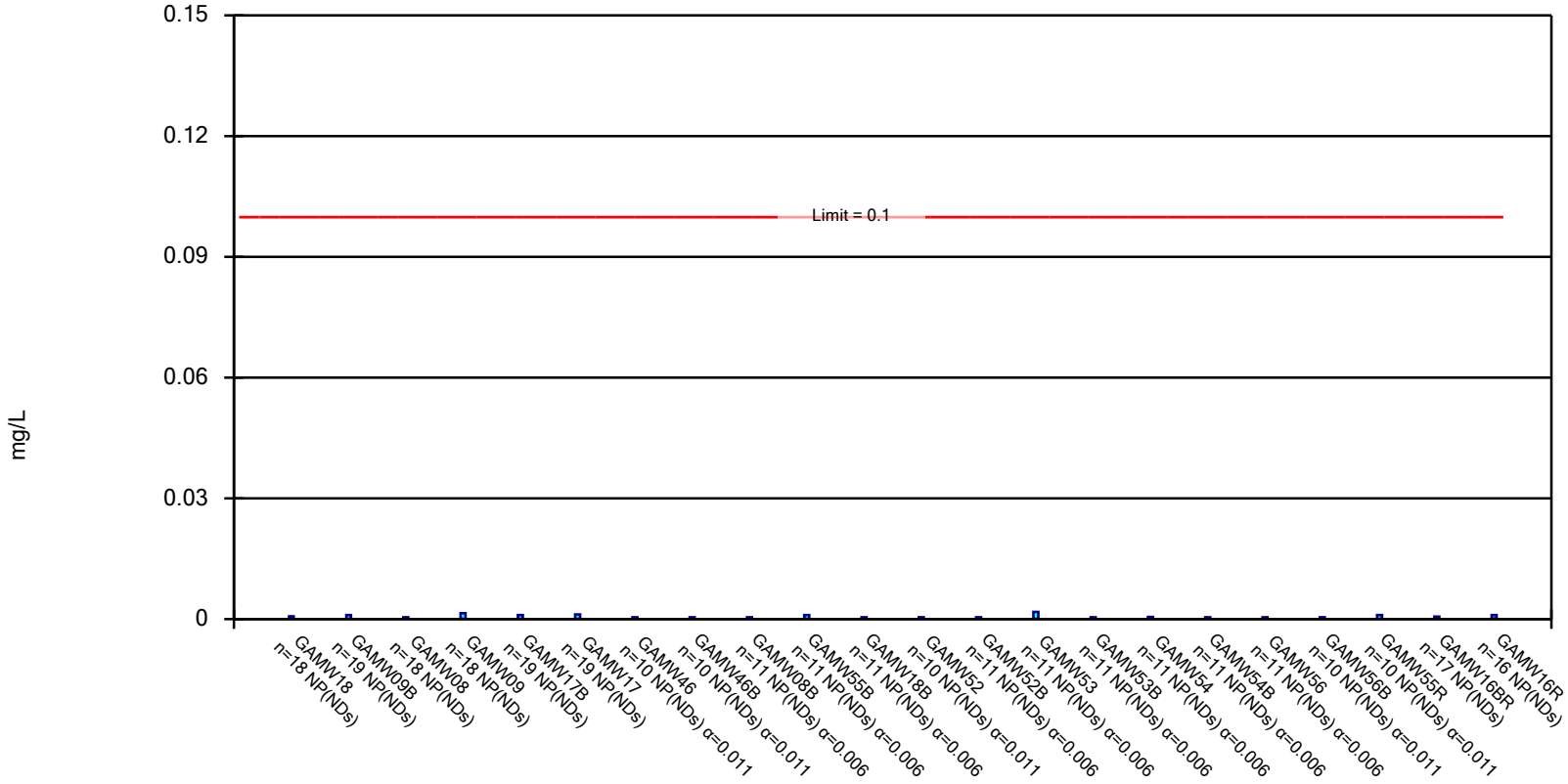


Constituent: Cadmium Analysis Run 8/2/2023 1:47 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.

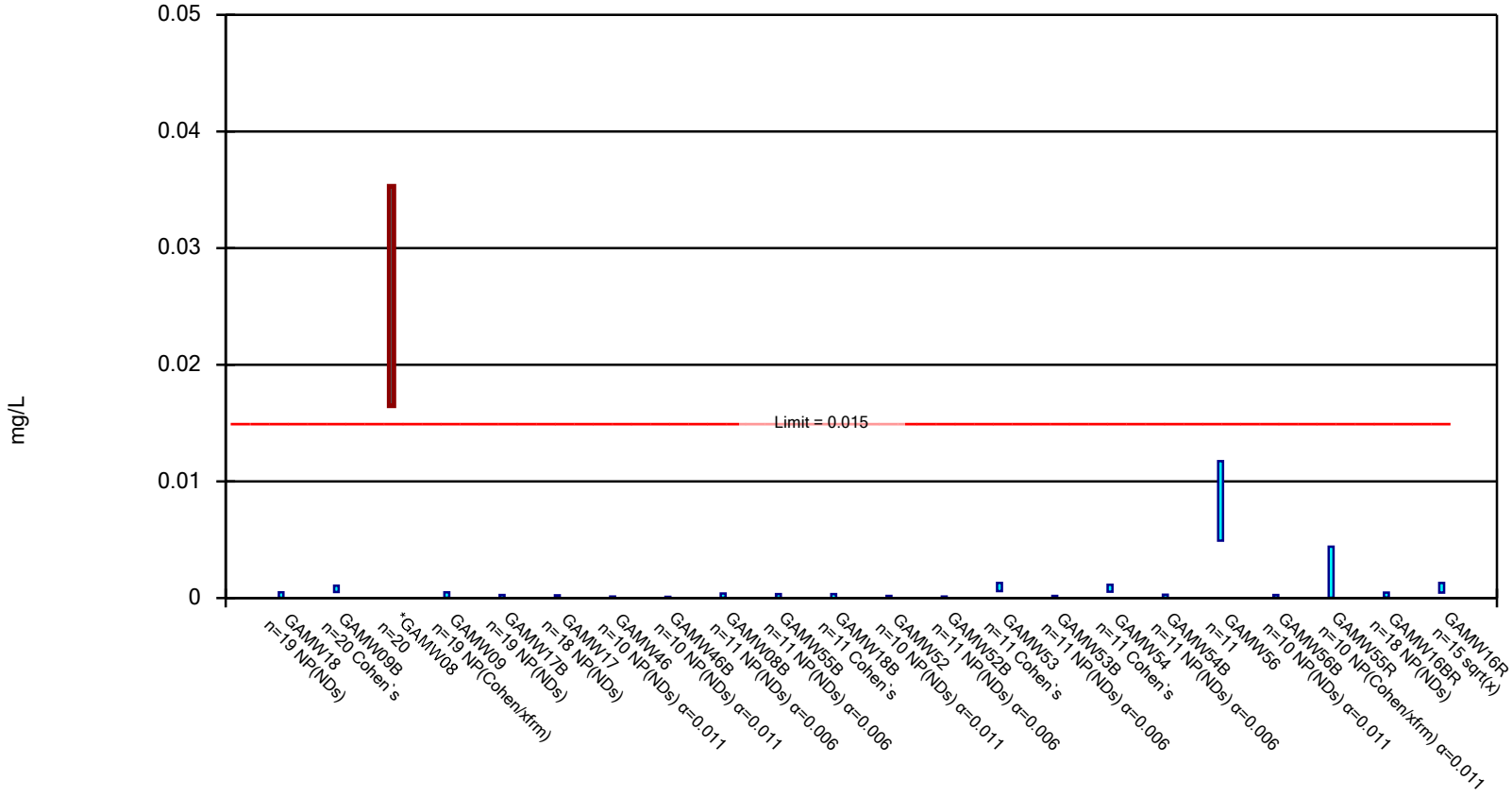


Constituent: Chromium Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.

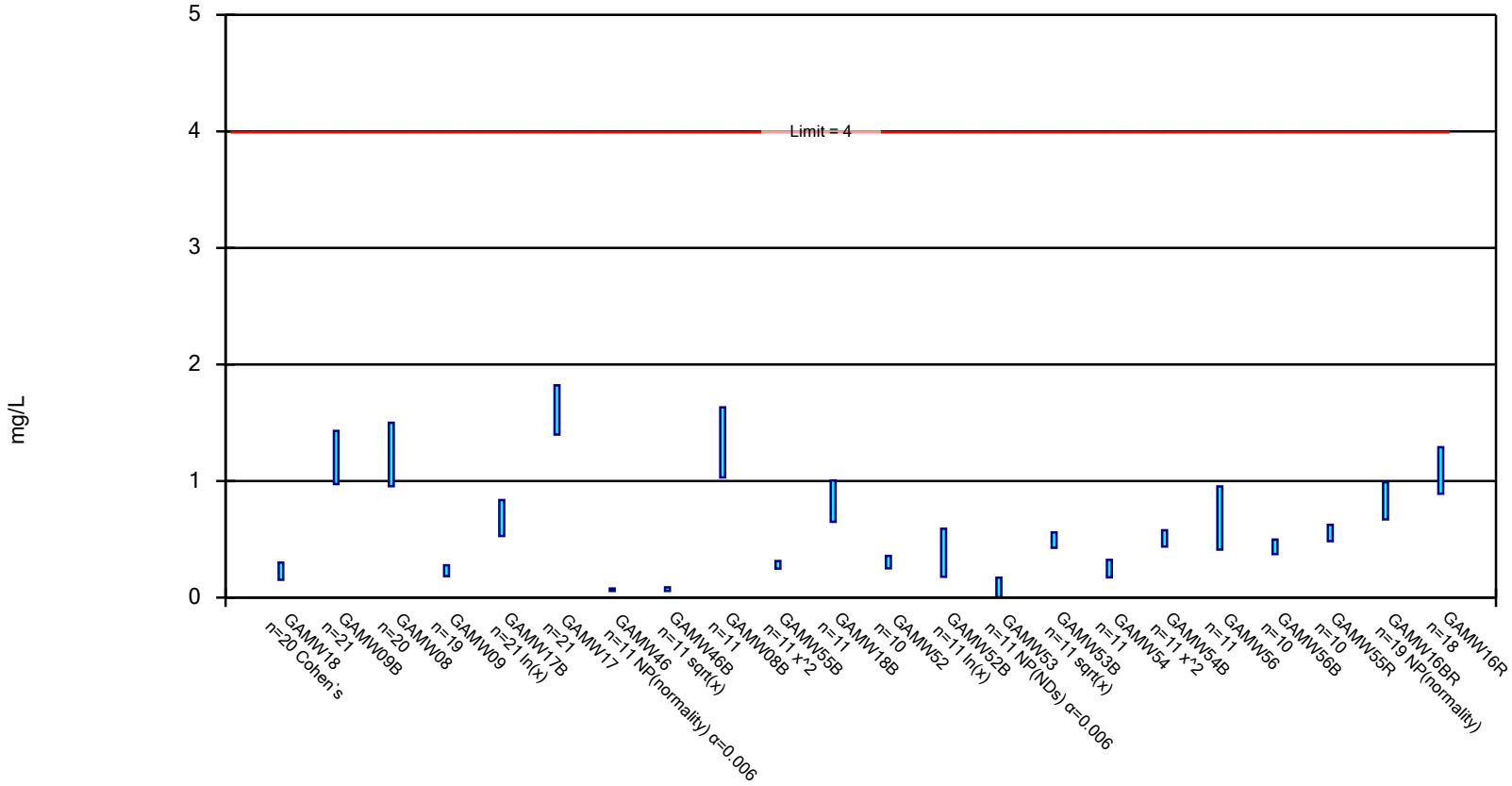


Constituent: Cobalt Analysis Run 8/2/2023 4:27 PM View: WDA Combined Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080223

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.

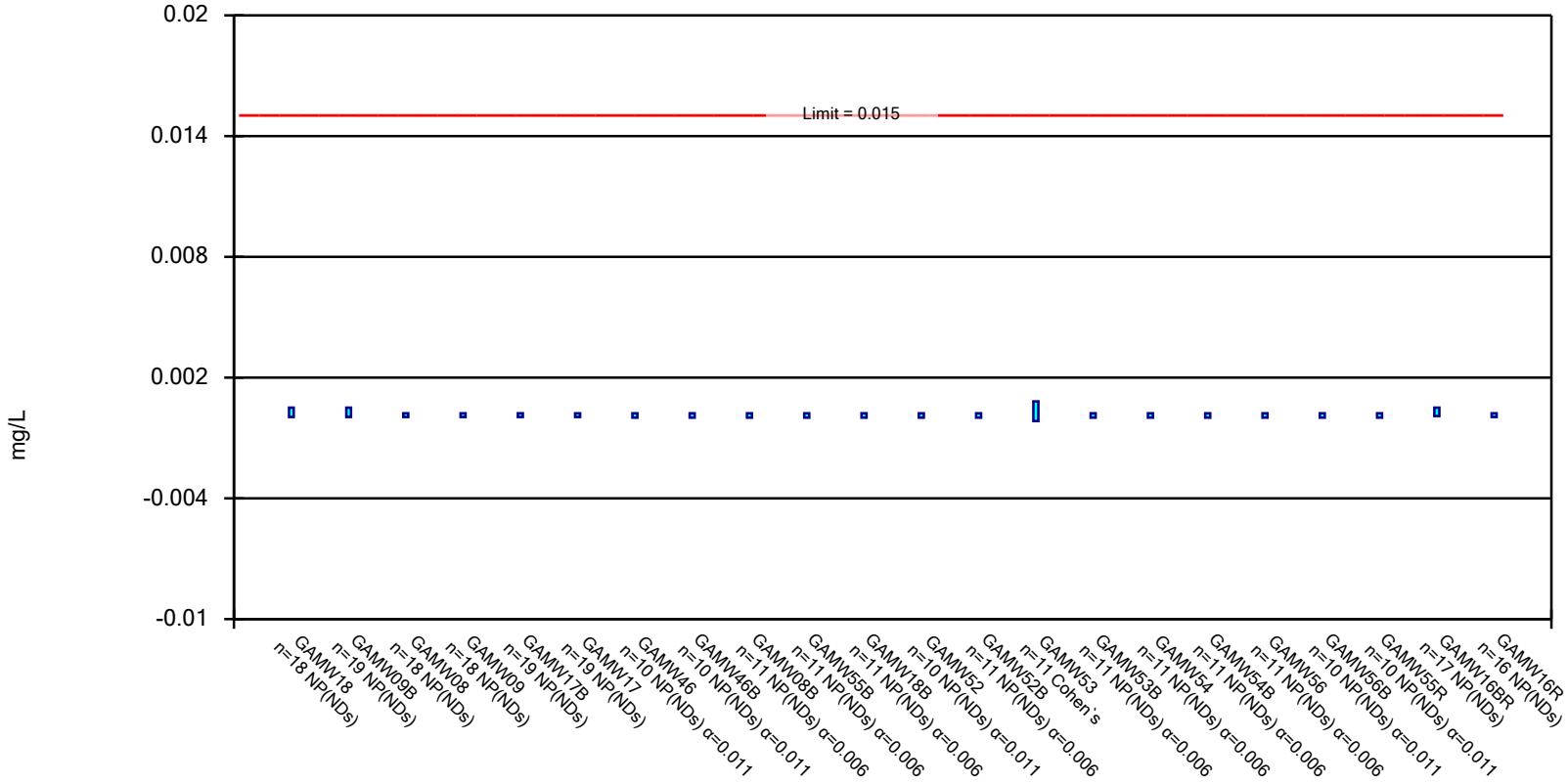


Constituent: Fluoride Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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.

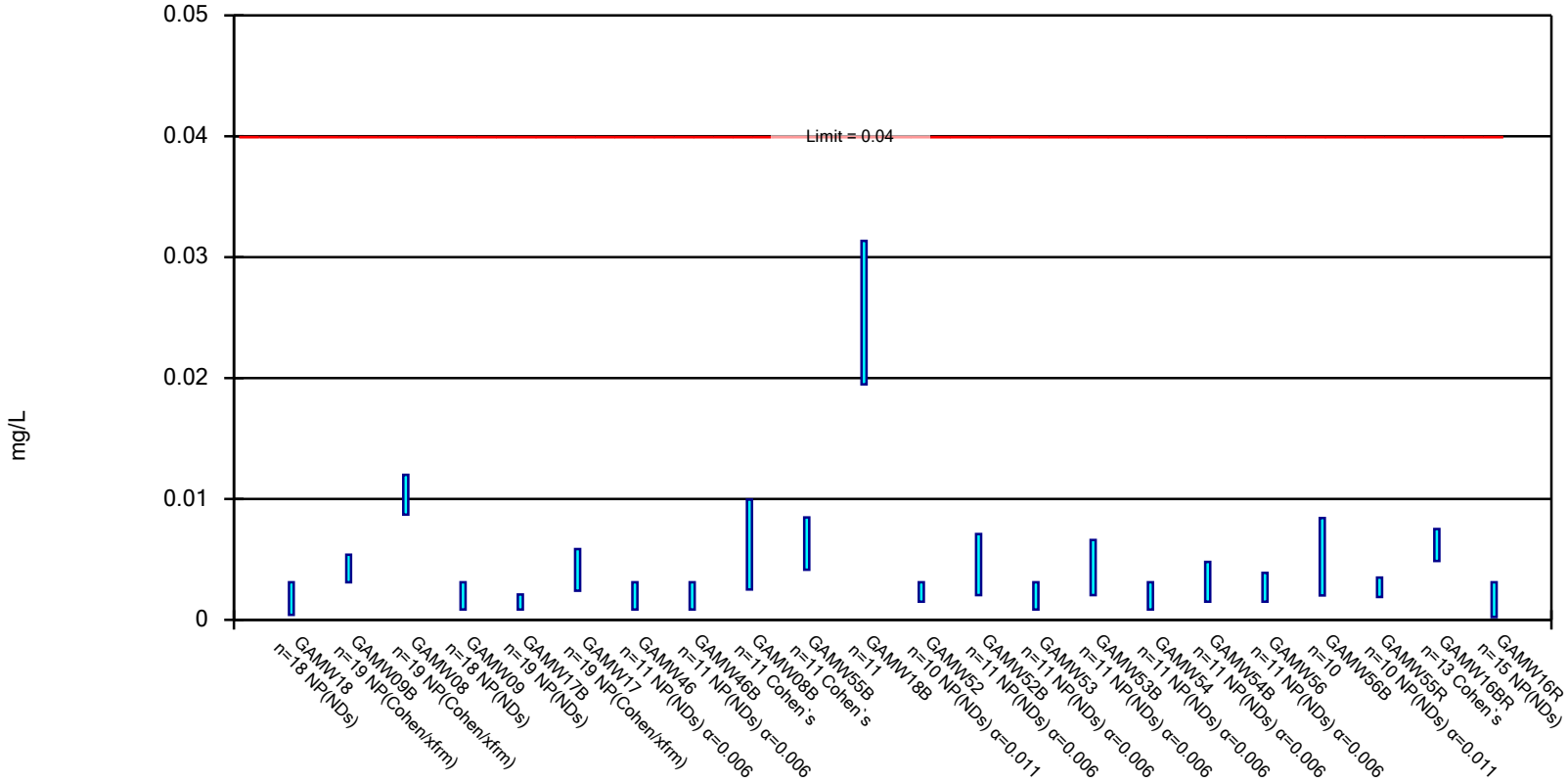


Constituent: Lead Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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.

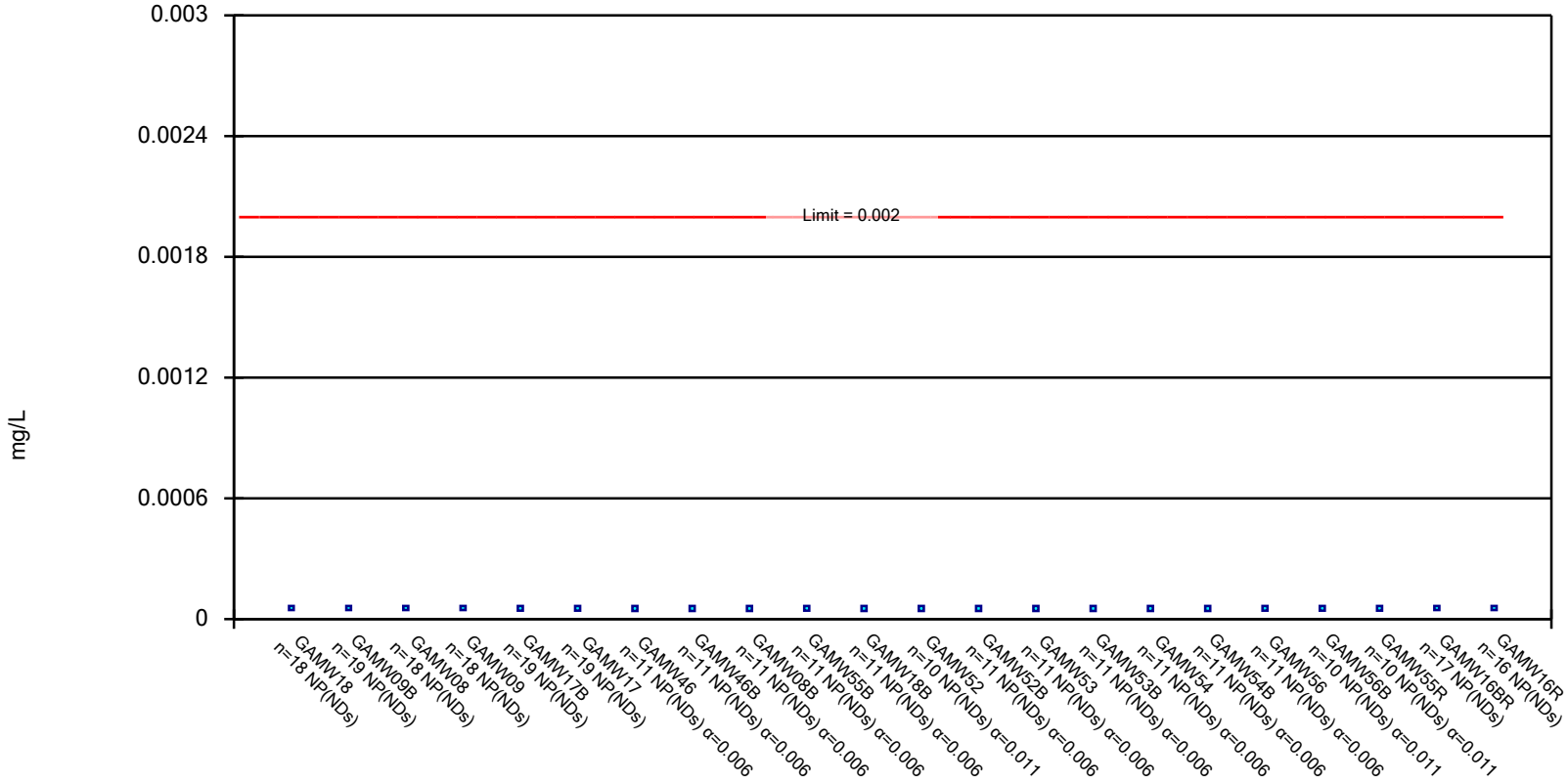


Constituent: Lithium Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



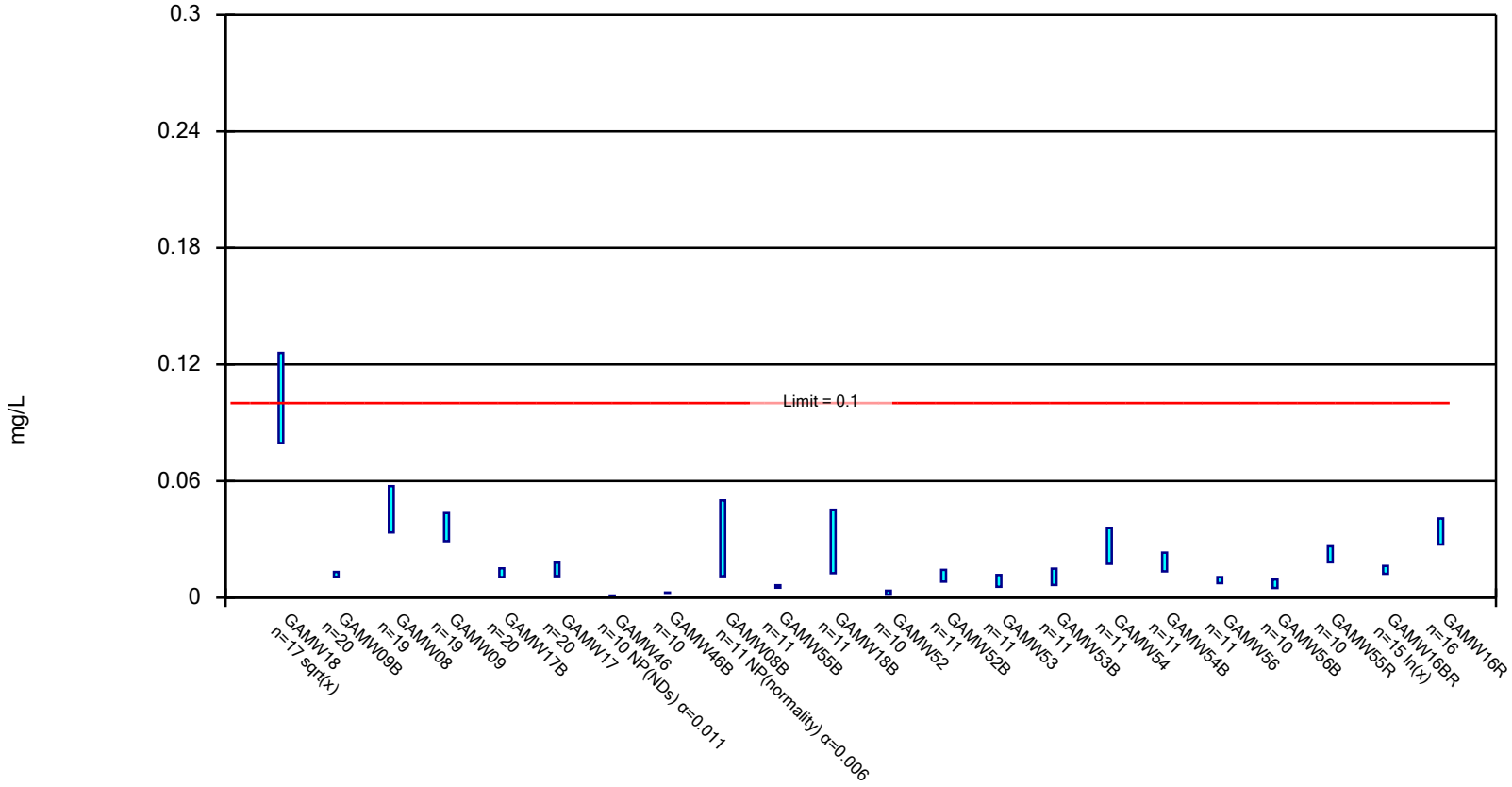
Constituent: Mercury Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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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.

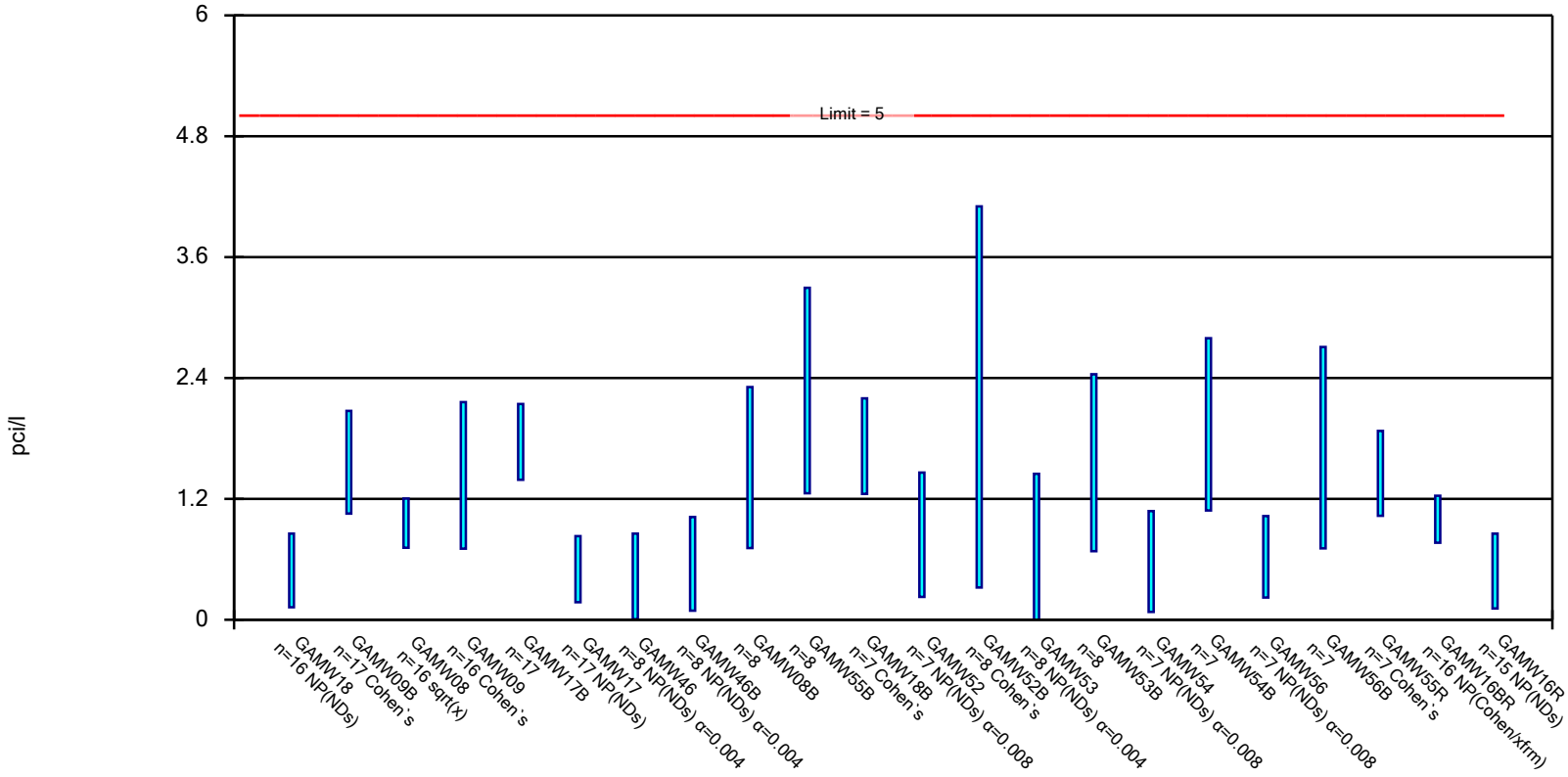


Constituent: Molybdenum Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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.

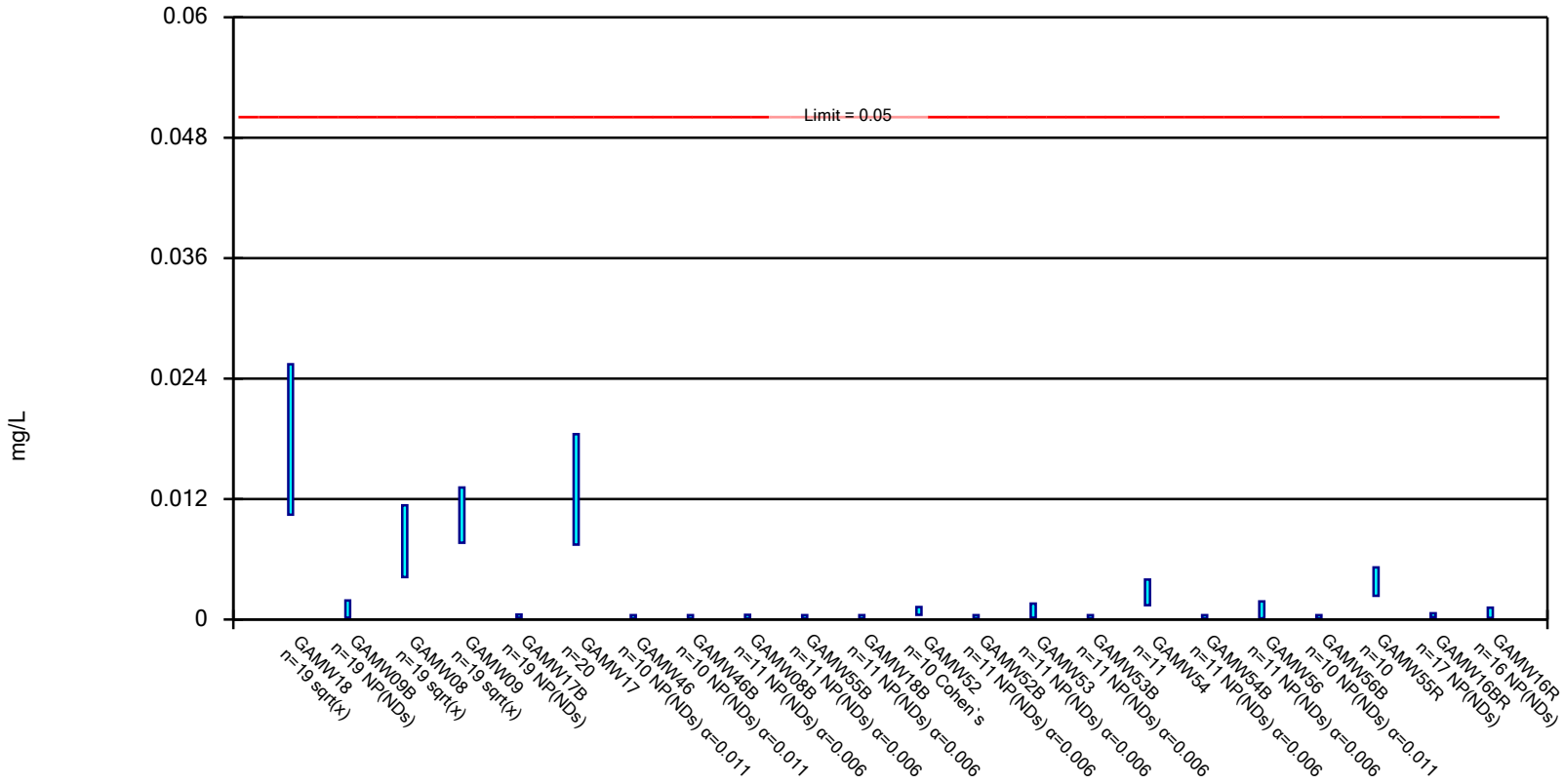


Constituent: Radium 226 + 228 Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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.



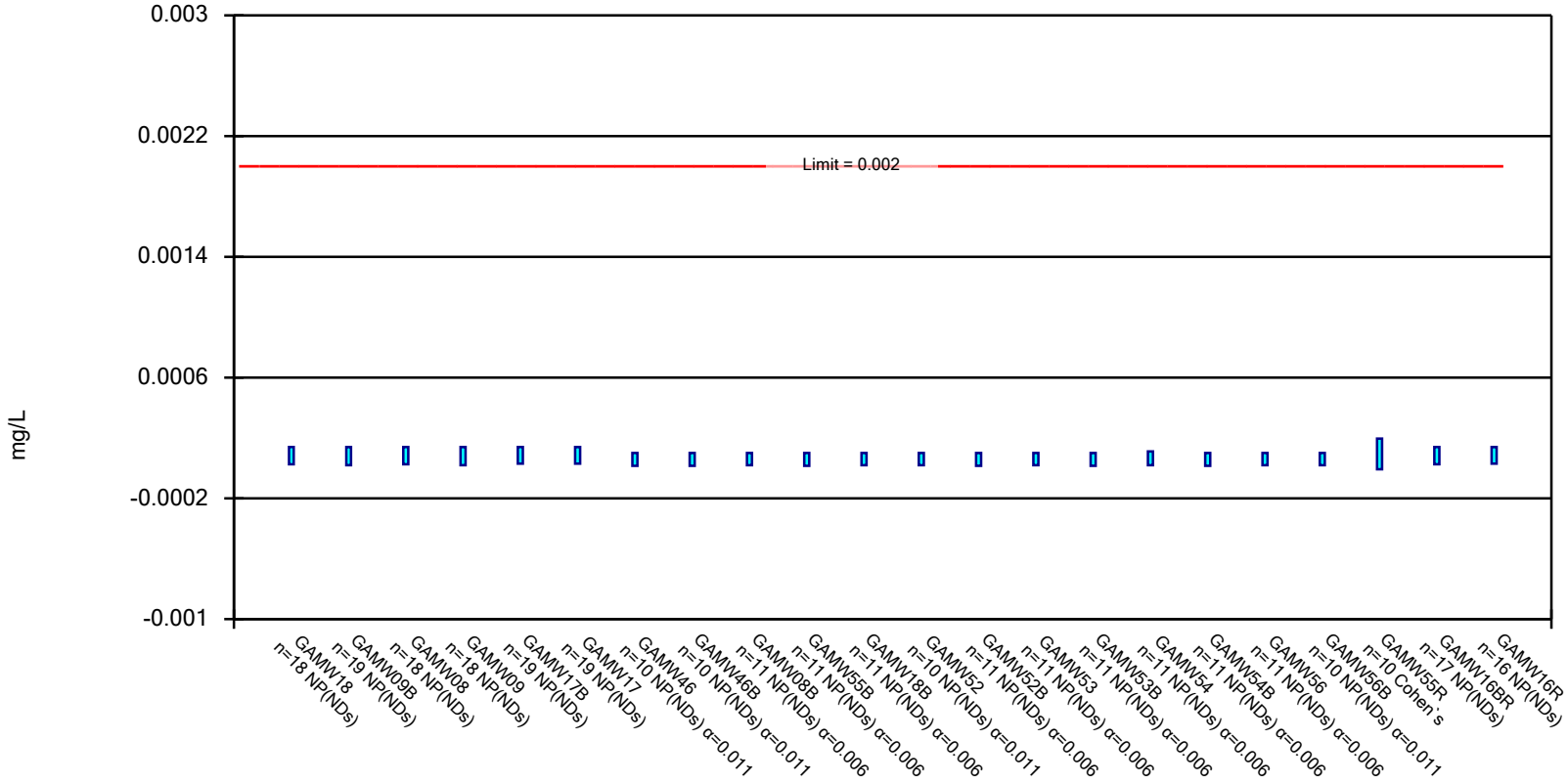
Constituent: Selenium Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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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.



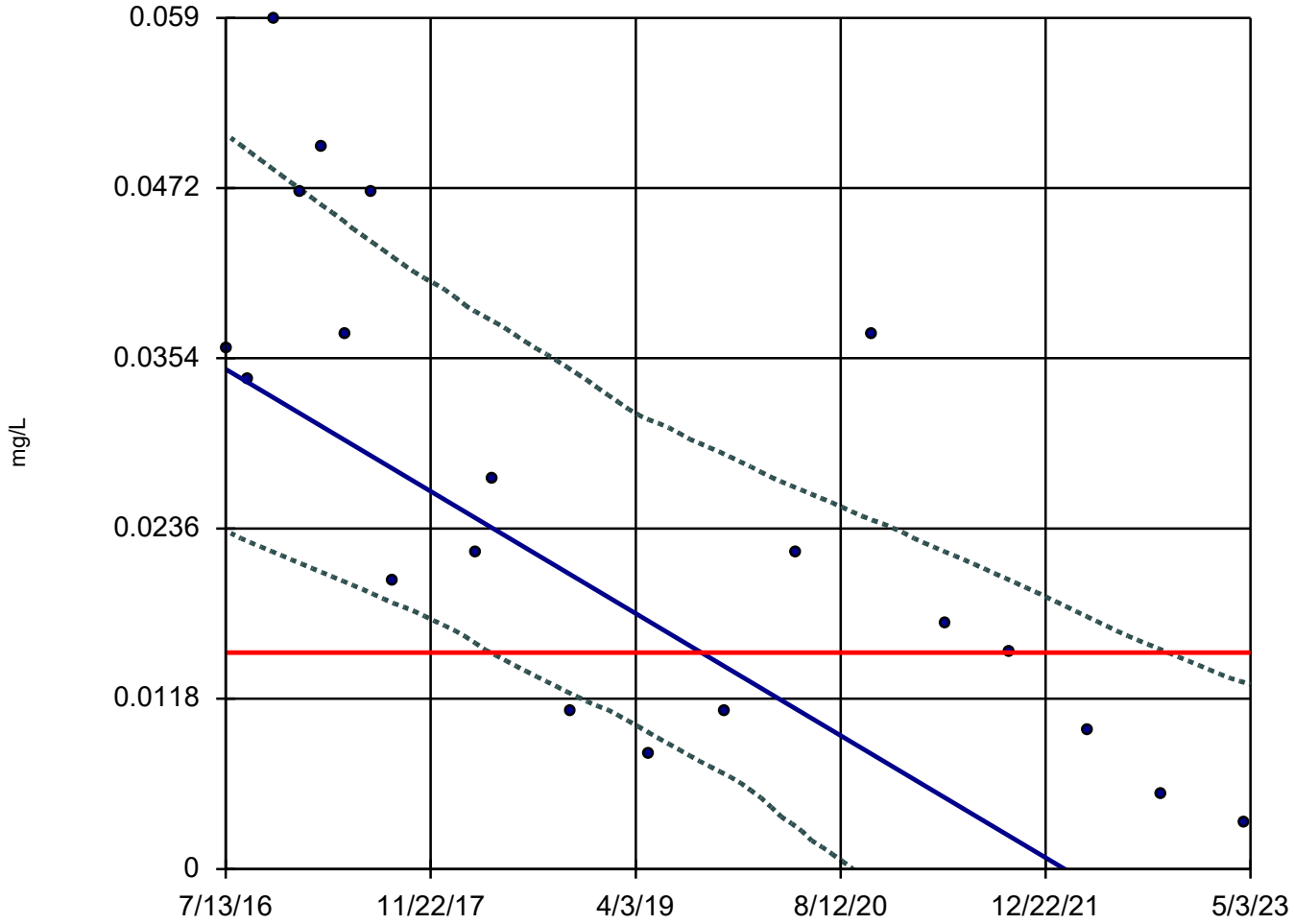
Constituent: Thallium Analysis Run 8/2/2023 1:48 PM View: MCU- Impoundments Combined (no upgradient)

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080123

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Sen's Slope and 95% Confidence Band

GAMW08



n = 20

Slope = -0.006216 units per year.

Mann-Kendall statistic = -114 critical = -73

Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Confidence band intersects GWPS (0.015) on 04/29/18 and 10/17/22.

Constituent: Cobalt Analysis Run 8/2/2023 4:00 PM View: WDA Combined Wells

R.M. Schahfer GS Client: NIPSCO Data: RMSGS_CCR_GW_080223



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