

**2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**

**ALABAMA POWER COMPANY
PLANT BARRY
ASH POND**

January 31, 2023

Prepared for

Alabama Power Company
Birmingham, Alabama

By

Southern Company Services
Earth Science and Environmental Engineering



CERTIFICATION STATEMENT

This 2022 Annual Groundwater Monitoring and Corrective Action Report, Alabama Power Company - Plant Barry Ash Pond has been prepared in accordance with the United States Environmental Protection Agency's coal combustion residual rule (40 CFR Part 257, Subpart D), ADEM Admin. Code Ch. 335-13-15, and Part E of ADEM Administrative Order No. 18-094-GW, under the supervision of a licensed professional engineer in the State of Alabama. As such, I certify that the information contained herein is true and accurate to the best of my knowledge.

Gregory Budd

1/31/2023

Gregory F. Budd, PG
AL Registered Professional Geologist No. 1455

Date

Greg Whetstone



1/31/2023

Gregory Whetstone, PE
AL Registered Professional Engineer No. 27885

Date

EXECUTIVE SUMMARY

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-094-GW, this 2022 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document the 2022 semi-annual groundwater monitoring activities at the Alabama Power Company (APC) James M. Barry Electric Generating Plant (Plant Barry) Ash Pond and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(e), and Part E of AO 18-094-GW. Semi-annual monitoring and associated reporting for Plant Barry Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

The CCR unit began the monitoring period in corrective action pursuant to § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9). Statistically significant increases (SSIs) of Appendix III constituents over background were identified in the results of the first detection monitoring event and assessment monitoring was initiated in January 2018. Statistically significant levels (SSLs) of Appendix IV parameters above groundwater protection standards were identified while in assessment monitoring. Consequently, an assessment of corrective measures (ACM) was initiated on January 13, 2019, and completed on June 12, 2019, according to the requirements of § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM Administrative Order No. 18-094-GW. A public meeting to discuss the ACM was held on June 30, 2020.

Since the submittal of the ACM extensive Site investigations have been performed to select effective corrective measures to address SSLs above GWPS. A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-094-GW and submitted to ADEM on October 29, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on January 27, 2022, for review.

The Corrective Action Groundwater Monitoring Program was prepared to meet § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program has been developed to meet the requirements of CFR § 257.98(a)(1) and ADEM Admin. Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

SSLs of Appendix IV parameters arsenic and cobalt were detected above GWPS during the semi-annual monitoring events of 2022. The following summarizes results and activities conducted during the semi-annual monitoring periods of 2022:

- Submitted the 2021 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2022.
- Installed multi-parameter monitoring instruments in select wells between January and February 2022 as a tool for evaluating groundwater conditions during closure and in-between sampling events.
- Collected soil and groundwater samples for treatability studies using Site aquifer media and impacted groundwater prior to field implementation of an injection treatment pilot study between March 1, 2022 and June 3, 2022. The treatability studies will evaluate the effectiveness of various treatment solutions and doses in removing constituents of interest (COIs) from impacted groundwater.
- Completed the first semi-annual groundwater sampling event between May 23, 2022 and May 31, 2022.
- Submitted the First Semi-Annual Groundwater Monitoring and Corrective Action Report on July 31, 2022.
- Completed the second semi-annual groundwater sampling event between October 31, 2022 and November 10, 2022.

The CCR unit concluded the monitoring period in corrective action and APC will continue implementation of the selected groundwater remedies identified in the Groundwater Remedy Selection Report and the Corrective Action Groundwater Monitoring Program submitted to ADEM. The following corrective action and monitoring-related activities are planned for the CCR unit:

- Complete the Laboratory Treatability Studies and draft and submit a Class V Underground Injection Control (UIC) permit application for the geochemical manipulation via injections that was selected as one of the corrective measures as described in the Groundwater Remedy Selection Report and will be included in a Class V UIC permit application. The laboratory treatability studies include the following tasks:
 - Conduct batch testing to evaluate removal of COIs, and selection of the optimum reagents and doses for column tests.
 - Conduct column testing to evaluate removal of COIs by mixing treatment reagents with site-specific impacted groundwater and applying to site-specific soils (aquifer solids) in columns;

Appendix III and IV constituents will be measured in the column effluents to determine the reduction of COIs in groundwater, and to evaluate any unintended consequences of treatment (e.g., release of constituents from soils).

- Conduct selective sequential extraction of post-column (treated) soils to help determine the sequestration mechanisms and stability of the COIs and their host solids.
- After treatment, the post-column (treated) soils will be leached with upgradient (background) groundwater from the Site in additional column studies, to help assess long-term stability of the COIs and their host solids.
- Conduct the first semi-annual monitoring event in the spring of 2023 and submit the semi-annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2023.

Pursuant to 40 CFR 257.90(e)(6), a **Monitoring Period Summary Table** has been prepared to describe the status of groundwater monitoring and corrective action during the monitoring period for this report.

**Executive Summary Table.
Monitoring Period Summary
Plant Barry - Ash Pond**

Assessment Monitoring Initiated: January 15, 2018
 Monitoring Period: January 1 - December 31, 2022
 Beginning Status: Corrective Action
 Ending Status: Corrective Action

Statistical Analysis Results *

Appendix III SSIs

Parameter	Wells
Boron	BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-16, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9.
Calcium	BY-AP-MW-1, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16.
Chloride	BY-AP-MW-1, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16.
Fluoride	BY-AP-MW-7, BY-AP-MW-13, BY-AP-MW-15.
pH	BY-UP-MW-3, BY-AP-MW-7, BY-AP-MW-8.
Sulfate	BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-16,.
TDS	BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16.

Appendix IV SSLs

Parameter	Wells
Arsenic	BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16.
Cobalt	BY-AP-MW-15

* See the attached report for further details regarding statistical exceedances and alternate source demonstrations.

Assessment of Corrective Measures & Groundwater Remedy

Assessment of Corrective Measures

Date Initiated: January 13, 2019
 Date Complete: June 12, 2019
 Public Meeting Date: June 30, 2020

Groundwater Remedy

Selected During Period: Yes
 Selection Date: 10/29/2021
 Initiated During Period: Yes
 Ongoing During Period: Yes

TABLE OF CONTENTS

EXECUTIVE SUMMARY	i
1.0 Introduction.....	1
2.0 Monitoring Program Status.....	2
3.0 Site Location and Description.....	3
3.1 Physical Setting.....	3
3.2 Site Geology and Hydrogeology.....	3
3.2.1 Uppermost Aquifer	5
3.2.2 Flow Interpretation.....	5
3.3 Groundwater Monitoring System.....	5
3.3.1 Monitoring Wells	6
3.3.1.1 Upgradient Wells	6
3.3.1.2 Downgradient Wells	7
3.3.1.3 Delineation Wells.....	7
3.3.1.4 Piezometers	8
3.3.1.5 Monitoring Well Replacement and Abandonment.....	8
3.4 Groundwater Monitoring History	9
3.4.1 Available Monitoring Data	9
3.4.2 Historical Groundwater Flow.....	9
3.4.3 Monitoring Variances	10
3.5 Groundwater Sampling and Analysis	10
3.5.1 Groundwater Sample Collection.....	11
3.5.2 Sample Preservation and Handling	11
3.5.3 Chain of Custody	12
3.5.4 Laboratory Analysis.....	12
3.5.5 Monitoring Period Sampling Events Summary	12

4.0	Groundwater Elevations.....	14
4.1	Groundwater Flow Velocity Calculations.....	14
5.0	Evaluation of Groundwater Quality Data	16
5.1	Data Validation – Quality Assurance/Quality Control	16
5.2	Statistical Methodology and Tests	17
5.2.1	Appendix III Evaluation.....	17
5.2.2	Appendix IV Evaluation	18
5.3	Statistical Exceedances	19
5.3.1	Appendix III Constituents	19
5.3.2	Appendix IV Constituents.....	19
5.3.2.1	First Semi-Annual Groundwater Monitoring Event.....	19
5.3.2.2	Delineation Wells.....	20
5.3.2.3	Second Semi-Annual Groundwater Monitoring Event	21
5.3.2.4	Delineation Wells.....	21
6.0	Groundwater Assessment.....	23
6.1	Chronology of Delineation Activities	23
6.1.1	Delineation Wells.....	23
6.2	Nature and Estimated Quantity of Release	25
6.3	Discussion of Delineation Results	26
6.3.1	Arsenic Delineation.....	28
6.3.2	Cobalt Delineation	30
6.4	Status of Delineation.....	31
6.5	Groundwater Remedy and Corrective Action.....	32
6.5.1	Groundwater Remedy Selection	32
6.5.2	Corrective Action – Groundwater Monitoring Program	33
6.5.3	Groundwater Quality Changes and Trends	36

Plant Barry Ash Pond
2022 Annual Groundwater Monitoring and Corrective Action Report

7.0	Summary and Conclusions	38
8.0	References.....	40

FIGURES

Figure 1	Site Location Map
Figure 2	Site Topographic Map
Figure 3	Site Geologic Map
Figure 4A	Geologic Cross-Section A-A'
Figure 4B	Geologic Cross-Section B-B'
Figure 4C	Geologic Cross-Section C-C'
Figure 5	Monitoring Well Location Map
Figure 6A	Potentiometric Surface Contour Map (May 23, 2022)
Figure 6A	Potentiometric Surface Contour Map (October 31, 2022)
Figure 7A	Arsenic Isoconcentration Map (May 2022)
Figure 7B	Cobalt Isoconcentration Map (May 2022)
Figure 7C	Arsenic Isoconcentration Map (October – November 2022)
Figure 7D	Cobalt Isoconcentration Map (October – November 2022)
Figure 8A	Arsenic Concentrations Along Geologic Cross-Section A-A' (May 2022)
Figure 8B	Arsenic Concentrations Along Geologic Cross-Section B-B' (May 2022)
Figure 8C	Arsenic Concentrations Along Geologic Cross-Section A-A' (October – November 2022)
Figure 8D	Arsenic Concentrations Along Geologic Cross-Section B-B' (October – November 2022)
Figure 9A	Cobalt Concentrations Along Geologic Cross-Section A-A' (May 2022)
Figure 9B	Cobalt Concentrations Along Geologic Cross-Section B-B' (May 2022)
Figure 9C	Cobalt Concentrations Along Geologic Cross-Section A-A' (October – November 2022)
Figure 9D	Cobalt Concentrations Along Geologic Cross-Section B-B' (October – November 2022)

TABLES

Table 1a	Compliance Monitoring Well Network Details
Table 1b	Delineation Well Network Details
Table 1c	Piezometer Well Network Details
Table 2	Monitoring Parameters and Reporting Limits
Table 3	Recent Groundwater Elevations Summary
Table 4a	Relative Percent Difference (RPD) Calculations
Table 4b	Field QC: Blank Detections
Table 5	Summary of Background Levels and Groundwater Protection Standards
Table 6	First Semi-Annual Monitoring Event Analytical Summary

Table 7 Second Semi-Annual Monitoring Event Analytical Summary

APPENDICES

Appendix A	Groundwater Analytical Data
Appendix B	Historical Groundwater Elevations Summary
Appendix C	Laboratory and Field Records
Appendix D	Horizontal Groundwater Flow Velocity Calculations
Appendix E	Statistical Analysis
Appendix F	Laboratory Treatability Study Work Plan

ABBREVIATIONS

ACM	Assessment of Corrective Measures
ADEM	Alabama Department of Environmental Management
AL	Alabama
APC	Alabama Power Company
APCEL	APC Environmental Laboratory
ASD	Alternate Source Demonstration
ASTM	Alabama Power Company Environmental Laboratory
BGS	below ground surface
CCR	Coal Combustion Residual
CEC	cation exchange capacity
CFR	Code of Federal Regulations
COC	chain of custody
COI	constituents of interest
CSM	conceptual site model
DO	dissolved oxygen
EPA	United States Environmental Protection Agency
ft	feet
GW	groundwater
GWPS	Groundwater Protection Standard(s)
LCL	Lower Confidence Limit(s)
m	meter
mg/L	milligram per liter
MNA	monitored natural attenuation
MSL	mean sea level
MW-	denotes "Monitoring Well"
NCDS	National Coal Data System
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity unit
ORP	oxidation reduction potential
pCi/L	picocuries per liter
PE	Professional Engineer
PG	Professional Geologist
PL	prediction limits
PQL	practical quantitation limit
PVC	polymerizing vinyl chloride
QA/QC	quality assurance/quality control
RL	reporting limit
RPD	relative percent difference
SEM	scanning electron microscopy
SM	Standard Method(s)
SSE	selective sequential extraction

SSI	statistically significant increase
SSL	statistically significant level
TAL	Test America, Inc.
TOC	top of casing
TDS	total dissolved solids
USGS	Unites States Geological Survey
UTLs	Upper Tolerance Limits
XRD	X-ray diffraction
XRF	X-ray fluorescence

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (EPA) coal combustion residual (CCR) rule (40 CFR Part 257, Subpart D), the State of Alabama Department of Environmental Management (ADEM) Admin. Code Ch. 335-13-15, and ADEM Administrative Order (AO) No. 18-094-GW, this 2022 Annual Groundwater Monitoring and Corrective Action Report has been prepared to document 2022 semi-annual groundwater monitoring activities at the Plant Barry Ash Pond and to satisfy the requirements of § 257.90(e), ADEM Admin. Code r. 335-13-15-.06(1)(f), and Part E of AO No. 18-094-GW. Semi-annual monitoring and associated reporting for Plant Barry Ash Pond is performed in accordance with the monitoring requirements § 257.90 through § 257.98 and ADEM Admin. Code r. 335-13-15-.06(1) through r. 335-13-15-.06(9).

Semi-Annual Groundwater Monitoring and Corrective Action Reports include an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018) and corrective action activities completed since the submittal of the Corrective Action Groundwater Monitoring Program (January 27, 2022).

2.0 MONITORING PROGRAM STATUS

The site is currently in corrective action and APC will continue implementation of the selected groundwater remedies identified in the Groundwater Remedy Selection Report and the Corrective Action Groundwater Monitoring Program. In accordance with § 257.94(e) and ADEM Admin. Code r. 335-13-15-.06(5)(e), APC implemented assessment monitoring in January 2018. SSIs of Appendix III and SSLs of Appendix IV parameters were identified at the Plant Barry Ash Pond during sampling events conducted in 2018. Alternate Source Demonstrations (ASD) were not completed for all Appendix IV constituents exceeding the GWPS; therefore, pursuant to § 257.95(g)(3)(i) and ADEM Admin. Code r. 335-13-15-.06(6)(g)4.(i), APC completed an assessment of corrective measures (ACM) in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM AO No. 18-094-GW. The ACM was completed June 12, 2019, and a public meeting was held to discuss the ACM on June 30, 2020.

A Groundwater Remedy Selection Report was prepared to meet the requirements of § 257.97, ADEM Admin. Code r. 335-13-15-.06(8), and Part C of AO No.18-094-GW and submitted to ADEM on October 29, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on January 27, 2022, for review.

The Corrective Action Groundwater Monitoring Program was prepared to meet § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9) to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program has been developed to meet the requirements of CFR § 257.98(a)(1) and ADEM Admin. Code r. 335-13-15-.06(9)(a)(1) and will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

In accordance with § 257.98 and ADEM Admin. Code r. 335-13-15-.06(9), APC will continue semi-annual monitoring, including all monitoring wells in the certified groundwater monitoring system and any well installed to characterize the horizontal and vertical extent of SSLs. APC will continue implementation of the selected groundwater remedies identified in the Groundwater Remedy Selection Report and the Corrective Action Groundwater Monitoring Program submitted to ADEM.

3.0 SITE LOCATION AND DESCRIPTION

The Alabama Power Company (APC) James M. Barry Electric Generating Plant (Plant Barry) is in northeastern Mobile County, Alabama, approximately 23 miles north of Mobile, AL and 1 mile east of the city of Bucks, AL. The physical address is 15300 U.S. Highway 43 North, Bucks, Alabama 36512. Plant Barry lies in Section 36 of Township 1 North, Range 1 West, Sections 31 and 32 of Township 1 North, Range 1 East, Section 1 of Township 1 South, Range 1 West, and Sections 5 and 6 of Township 1 South, Range 1 East. Section/Township/Range data are based on visual inspection of USGS topographic quadrangle maps and GIS maps (USGS, 1980, 1982a, 1982b, 1983). The Ash Pond is located east-southeast of the main plant, between the Mobile River and Plant Barry barge canal. **Figure 1, Site Location Map,** depicts the location of the Plant and Ash Pond with respect to the surrounding area.

3.1 PHYSICAL SETTING

Plant Barry is located within the Southern Pine Hills and the Alluvial-deltaic Plain districts of the East Gulf Coastal Plain physiographic section. The Alluvial-deltaic Plain district is composed of alluvium and terrace deposits of the Mobile River delta and is characterized by very little topographical relief (Gillet et al., 2000). The Southern Pine Hills district is a southward sloping plain developed on Miocene Series clay, sand, and gravel deposits. The Southern Pine Hills district is dissected by surface water features, and near Plant Barry, displays gentle topographic relief (Davis, 1987). Local site elevations near the Ash Pond range from approximately 0 to 50 feet above mean seal level (MSL). The embankment elevations that form the perimeter of the Ash Pond reside between 26 and 20 feet MSL. **Figure 2, Site Topographic Map,** provides the topography of the Site.

3.2 SITE GEOLOGY AND HYDROGEOLOGY

The geology of the site is characterized by sedimentary deposits ranging in age from Tertiary to Quaternary. The Pliocene age Citronelle formation, while present regionally, was not encountered at the site. Sedimentary alluvial and terrace deposits of the Quaternary Period overlie largely unconsolidated Tertiary deposits in and adjacent to the flood plains of the Mobile River. At the site, Holocene age alluvial and low terrace deposits overlie undifferentiated Miocene Series sediments. Miocene Series sediments were primarily deposited in a regressive marine depositional environment. The Miocene Series is composed of fine to very coarse-grained sand with interbedded sandy clays, silts, and shell fragments (Walter and Kidd,

1979). Siliciclastic sediments of the Miocene Series are often micaceous and pyritic, and contain wood fragments, shell debris, and heavy minerals (Chandler et al., 1985). Alluvial, low terrace, and coastal deposits reflect estuarine, deltaic, lagoonal, and shoreface deposition in lowland areas from late Pleistocene to Holocene time. These deposits consist of fine to coarse sand, which can be rich in heavy detrital minerals (Hsu, 1960), silt, sandy clay, clay, and shell fragments (Chandler et al., 1985). **Figure 3, Site Geologic Map**, illustrates the surface geology at the site and neighboring areas. **Figure 4A, Geologic Cross-Section A-A'**, **Figure 4B, Geologic Cross-Section B-B'**, and **Figure 4C, Geologic Cross-Section C-C'**, provides an illustration of well screen intervals with respect to stratigraphy and elevation at the Site.

Around the site, the uppermost stratigraphic layer varies from approximately 5 to 20 feet and is defined as fill material composed of sandy and silty lean clays that were placed during the construction of the Ash Pond. Beneath the fill material, generalized near-surface stratigraphy of the site, in descending order, consists of (Unit 1) an organic-rich fat clay to lean clay, (Unit 2) a sandy lean clay to clayey sand with interbedded silty sand, and (Unit 3) a poorly graded sand with lenses of sandy lean clay and gravel. The stratigraphy of the site displays vertical and horizontal heterogeneity common with alluvial, low terrace, and coastal deposits.

- Unit 1 is described as a mottled gray to dark gray and red fat clay with some interlayered sandy lean clays. Unit 1 extends from the base of fill materials to elevations of approximately -10 to -25 feet mean sea level (MSL).
- Unit 2 consists of mottled light gray, brownish yellow, and red sandy lean clay with medium plasticity and trace amounts of interlayered sand. Lenses of clayey sands and silty sands are also present within this unit. Unit 2 extends from the base of the organic clay layer to elevations of approximately -30 to -40 feet MSL grading into sand of Unit 3.
- Unit 3 comprises the uppermost aquifer for groundwater monitoring purposes at the site and is described as a pale brown or light gray poorly graded sand with silt content. Fine gravel appears in the lower portion of Unit 3. Lenses of sandy clay and clayey sand are present in the upper portions of Unit 3 but are not prevalent.
- Unit 4 likely corresponds to the transition to Miocene Series sediments and is described as a pale greenish gray or blue, interbedded fat clay, lean clay, and silty sand. The top of Unit 4 generally appears between 90 and 120 feet below ground surface at the Site (-65 to -100 ft MSL) and select

borings (BY-AP-MW-8V, BY-AP-MW-12V, BY-AP-MW-12VM, BY-AP-MW-15VM) indicate a thickness of 10 to 20 feet. Unit 4 clays display a very low average hydraulic conductivity of 3.0×10^{-7} cm/s.

3.2.1 Uppermost Aquifer

The uppermost aquifer beneath the site generally corresponds to Unit 3 sands, which are part of the Watercourse Aquifer system. At the site, Watercourse Aquifer generally consists of fine to medium grained sands with discrete gravelly, coarse sand and gravel. Clay nodules, lenses, and stringers are present within Unit 3, but are not prevalent. Depth to the top of the Watercourse Aquifer generally ranges between 45 and 70 feet below ground surface (BGS). Groundwater recharge to the Watercourse Aquifer is largely accomplished by infiltration of precipitation and subsequent percolation down to the water table. Regionally, the Watercourse and Miocene-Pliocene Aquifers are considered to be hydraulically connected due to the discontinuous nature of clay aquitards. However, locally semi-confined to confined conditions may be present when a sufficient aquitard separates the aquifers or sand units.

3.2.2 Flow Interpretation

Groundwater flow at the site is a subdued replica of the natural topography where gravity is the dominant force driving flow. Groundwater flows from higher topographic elevations west of the Ash Pond to lower topographic elevations to the east. Groundwater elevations, potentiometric surfaces, and geologic cross-section indicate that the Watercourse Aquifer beneath the Site is not in communication with the discharge canal. Groundwater flow is accomplished by porous or Darcian flow mechanics through sands of the Watercourse Aquifer. Groundwater elevations fluctuate in response to rainfall and Mobile River stage. Seasonal variations of 5 to 7 feet are typical at the Site. These fluctuations are consistent in monitoring wells across the Site, indicating a relatively uniform response to rainfall events and fluctuations of the Mobile River. Potentiometric surface maps are presented in **Section 4.0**.

3.3 GROUNDWATER MONITORING SYSTEM

Pursuant to § 257.91 and ADEM Admin. Code r. 335-13-15-.06(2), Plant Barry has installed a groundwater monitoring well network to monitor groundwater quality within the uppermost aquifer. The certified groundwater monitoring system for the Plant Barry Ash Pond is designed to monitor groundwater passing the waste boundary of the CCR unit. Wells were located to serve as upgradient or downgradient monitoring

locations based on groundwater flow direction as determined by the potentiometric surface elevation contour maps.

Monitoring wells were screened in the Watercourse Aquifer. The Watercourse Aquifer is composed of Quaternary alluvial and low terrace deposits consisting of interbedded sand, gravel, and clay. The monitoring systems are designed to monitor water quality as groundwater flows laterally from south to north across the site. All groundwater monitoring wells were designed and constructed using “Design and Installation of Groundwater Monitoring Wells in Aquifers,” ASTM Subcommittee D18.21, as a guideline.

3.3.1 Monitoring Wells

Well locations at the site are designated as upgradient, downgradient, piezometer (water-level only), vertical delineation, and horizontal delineation. The following subsections provide a summary of well designations and if applicable, changes or modifications to the well network or designations. As described in the site Groundwater Monitoring Plan, modifications to the well network or designation must first be approved by ADEM. Monitoring well locations are presented on **Figure 5, Monitoring Well Location Map** and **Table 1a. Compliance Monitoring Well Network Details, Table 1b. Delineation Monitoring Well Network Details, and Table 1c. Piezometer Well Network Details** summarize the monitoring well construction details and design purpose for the Plant Barry Ash Pond.

3.3.1.1 Upgradient Wells

Data used to establish background water quality or selection of upgradient wells include: (1) review of groundwater elevation data and potentiometric surface contour maps to determine groundwater flow direction and (2) a screening of Appendix III CCR indicator parameters (chiefly calcium, sulfate, and boron) for apparently elevated concentrations.

Historically, monitoring wells BY-AP-MW-2 through BY-AP-MW-4 have served as upgradient monitoring wells. These wells were selected as upgradient based on low concentrations of CCR indicator parameters and groundwater flow direction. Following discussions with ADEM, these wells were re-designated as compliance monitoring wells and not used for “background” purposes.

To establish a clear and distinct background, monitoring well locations BY-GSA-MW-1 through BY-GSA-MW-4 now serve as upgradient locations for the Ash Pond. Groundwater generally flows semi-radially

across the Ash Pond from the southwest to northeast with a northerly and southerly flow component. Upgradient wells are located south of the Gypsum Pond as determined by water level monitoring and potentiometric surface maps constructed for the Site. This re-designation of well locations was detailed in the revised groundwater monitoring plan submitted to ADEM on April 15, 2020 and resubmitted on August 24, 2020. Upgradient wells BY-GSA-MW-1 through BY-GSA-MW-4 are now being labeled as BY-UP-MW-1 through BY-UP-MW-4 by field and lab personnel to distinguish as upgradient locations for both the Barry Gypsum Pond and Barry Ash Pond. **Table 1a**, summarizes the monitoring well construction details and design purpose.

3.3.1.2 Downgradient Wells

Monitoring well locations BY-AP-MW-1 through BY-AP-MW-16 are used as downgradient compliance monitoring locations for the Ash Pond. Downgradient monitoring well details are included in **Table 1a**.

3.3.1.3 Delineation Wells

Pursuant to § 257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-094-GW, additional delineation wells were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring. Two phases of field investigation since late 2018 explored potential impacts to groundwater. Phase I was conducted between December 2018 and December 2019. Seven vertical delineation wells (BY-AP-MW-1V, BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-10V, BY-AP-MW-12V and BY-AP-MW-15V) and seven horizontal delineation wells (BY-AP-MW-17H, BY-AP-MW-18H, BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-22H, BY-AP-MW-23H, and BY-AP-MW-24H), were installed and sampled to assess the lateral extent of groundwater impact in the directions of groundwater flow away from the facility.

A Groundwater Investigation Report was submitted on December 15, 2019, summarizing Phase I groundwater investigation findings, and including a work plan for a Phase II investigation. Field work for Phase II was conducted between February 2020 and June 2020. Eight deep vertical delineation wells (BY-AP-MW-13V, BY-AP-MW-14V, BY-AP-MW-16V, BY-AP-MW-17V, BY-AP-MW-20V, BY-AP-MW-23V and BY-AP-MW-25V) and one horizontal delineation well (BY-AP-MW-25H) were installed to complete delineation activities at the Site.

Additionally, two Type III (double-cased) deep vertical delineation well borings (BY-AP-MW-12VM, and BY-AP-MW-15VM,) were advanced to vertically delineate the low-permeability Unit 4 interbedded fat clay, lean clay, and silty sand. Boring logs indicate thicknesses of greater than 25 feet (BY-AP-MW-12VM) and 20 feet (BY-AP-MW-15VM) of Unit 4 clays and a very low average hydraulic conductivity of 3.0×10^{-7} cm/s. Subsequently, soil boring BY-AP-MW-12VM was abandoned prior to well installation and BY-AP-MW-15VM was installed as a water level-only piezometer.

All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program. A semi-annual progress and groundwater delineation report summarizing findings was submitted to ADEM on September 30, 2020.

Unlike compliance wells, which are installed on top of the Ash Pond dike, many delineation wells are installed at the base of the dike and surrounding lower-lying areas. During the wet season or after rainy periods, some delineation wells can be either temporarily inaccessible for sampling or unsafe to sample. In that case, another sampling event will be attempted after a drying period or during the next semi-annual sampling event. Delineation wells are identified on **Figure 5** and detailed on **Table 1b**. All delineation wells are sampled semi-annually as part of the semi-annual assessment groundwater monitoring program.

3.3.1.4 Piezometers

Phase II delineation location BY-AP-MW-15VM is used as a water level-only piezometer. This location is separated from the Watercourse Aquifer (Unit 2/3 sands) by a lower confining layer (Unit 4) of sufficient thickness to justify water level-only monitoring at this location. BY-AP-MW-15VM encountered greater than 20 feet of clay and demonstrated a groundwater separation of 1.38 feet and 0.78 feet from paired Watercourse Aquifer well BY-AP-MW-15 during the first Phase II delineation sampling event conducted on June 15, 2020, and second semi-annual sampling event conducted on August 31, 2020, respectively. The groundwater elevations observed in well BY-AP-MW-15VM also indicate an upward vertical gradient (i.e., groundwater flowing upwards), providing further support for a piezometer designation. **Table 1c** summarizes the water-level only piezometer construction details.

3.3.1.5 Monitoring Well Replacement and Abandonment

Monitoring well replacement and/or abandonment activities were not performed during the 2022 annual monitoring period.

3.4 GROUNDWATER MONITORING HISTORY

In accordance with § 257.94(b), eight independent samples were collected from each background and downgradient well and analyzed for the constituents listed in Appendix III and IV prior to October 17, 2017. Background sampling was performed over the period of March 2016 to June 2017. Groundwater sampling for the first detection monitoring event after the background period was performed in September 2017.

Based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, Alabama Power initiated an assessment monitoring program on January 15, 2018. Pursuant to 40 CFR §257.95(a) and ADEM Admin. Code r. 335-13-15-.06(6)(a), monitoring wells were sampled for all Appendix IV parameters in January 2018, within 90 days of initiating the assessment monitoring program.

Statistical evaluations of 2018 assessment monitoring data identified SSLs of Appendix IV constituents above the GWPS, and the Site entered Assessment of Corrective Measures. Pursuant to 40 CFR §257.95(g)(1), ADEM Admin. Code r. 335-13-15-.06(6)(g)2., and AO 18-094-GW, additional monitoring wells (**Table 1b, Figure 5**) were installed to characterize the horizontal and vertical extent of GWPS exceedances identified during assessment monitoring in two phases of groundwater investigations between December 2018 and June 2020. These wells, along with the compliance monitoring well network, are sampled semi-annually. Delineation wells installed at the Site have been sampled concurrently with the compliance monitoring well network beginning with the second semi-annual sampling event in September 2020. However, occasionally, additional data collection has occurred independent of routine compliance sampling events to support continuing assessment activities at the site.

3.4.1 Available Monitoring Data

Laboratory analytical data is available for the groundwater monitoring history outlined in **Section 3.4**. Tabulated results for Appendix III and Appendix IV constituents by monitoring well are included in **Appendix A, Groundwater Analytical Data**.

3.4.2 Historical Groundwater Flow

Historical groundwater elevations and potentiometric surface maps show that groundwater flow patterns are consistent across monitoring events and as described in **Section 3.2.2**. As Ash Pond closure activities

progress over the years and upon completion of closure, groundwater elevations will likely display variability representative of changing site hydrodynamics and eventually, a new set of equilibrium conditions. As this timeline progresses, groundwater elevations and trends will be qualitatively reviewed against this historical data set. Tables summarizing groundwater elevations from all groundwater monitoring events are included in **Appendix B, Historical Groundwater Elevations Summary**.

3.4.3 Monitoring Variances

The groundwater monitoring program at the Site is operating under a Variance granted by the Department on April 15, 2019, to conform State monitoring requirements under the CCR rule to Federal requirements. The variance:

1. Retains boron as an Appendix III detection monitoring parameter and excludes it as an Appendix IV assessment monitoring parameter.
2. Authorizes the use of Federally-published GWPS of 0.006 milligrams per liter (mg/L) for cobalt; 0.015 mg/L for lead; 0.040 mg/L for lithium; and 0.100 mg/L for molybdenum in lieu of background where those levels are greater than background levels.

3.5 GROUNDWATER SAMPLING AND ANALYSIS

Site compliance wells are sampled semi-annually. The temporal spacing between sampling events is sufficient to ensure that sampling events yield independent groundwater samples and generally, represent different climatic or meteorological seasons which often foster a degree of natural variability in groundwater quality.

During routine semi-annual monitoring events, all compliance and delineation network wells are sampled and analyzed for Appendix III and Appendix IV constituents. Additional general chemistry constituents (major ions and anions) are now being collected routinely as well. These non-compliance parameters will be periodically analyzed to explore seasonal or closure-related changes to geochemical facies to site groundwater.

The following subsections summarize the sequential steps and process for the sampling, handling/transport, and analysis of compliance-related groundwater samples at the site.

3.5.1 Groundwater Sample Collection

Prior to recording water levels and collecting samples, each well was opened and allowed to equilibrate to atmospheric pressure. Within a 24-hour period, depths to groundwater were measured to the nearest 0.01 foot with an electronic water level indicator, with depth referenced from the top of the inner PVC well casing. Groundwater elevations were calculated by subtracting the depth to groundwater from surveyed top-of-casing (TOC) elevations.

Groundwater samples were collected from monitoring wells using low-flow sampling procedures in accordance with §257.93(a) and ADEM Admin. Code r. 335-13-15-.06(4)(a). All monitoring wells at Plant Barry are equipped with a dedicated pump. Monitoring wells were purged and sampled using low-flow sampling procedures. In this procedure, field water quality parameters (pH, turbidity, conductivity, and dissolved oxygen) are measured to determine stabilization and groundwater samples are collected when the following stabilization criteria are met:

- 0.2 standard units for pH.
- 5% for specific conductance.
- 0.2 mg/L or 10% for DO > 0.5 mg/l (whichever is greater).
- Turbidity measurements less than 10 NTU.
- Temperature and ORP – record only, no stabilization criteria.

During purging and sampling, an In-Situ Aqua Troll instrument was used to monitor and record field parameters. Once stabilization was achieved, samples were collected and submitted to the laboratory following standard chain-of-custody (COC) protocol. Field data recorded in support of groundwater sampling activities are included in **Appendix C, Laboratory and Field Records**.

3.5.2 Sample Preservation and Handling

Groundwater samples were collected with the designated size and type of laboratory-supplied containers required for specific parameters. Sample bottles were pre-preserved by the laboratory.

Where temperature control was required, samples were placed in an ice-packed cooler and cooled to less than 6 °C immediately after collection. Blue ice or other cooling packs were not used for cooling samples. An ice-packed cooler was on hand when samples were collected.

3.5.3 Chain of Custody

A COC record was used to track sample possession from the time of collection to the time of receipt at the laboratory. All samples were handled under strict COC procedures beginning in the field. COC records are included with the analytical laboratory reports included in **Appendix C**.

3.5.4 Laboratory Analysis

Laboratory analyses were performed by the APC Environmental Laboratory (APCEL) in Calera, Alabama and Pace Analytical Services, LLC (Pace). Both APCEL and Pace are accredited by National Environmental Laboratory Accreditation Program (NELAP) and maintain a NELAP certification for all parameters analyzed. **Table 2, Parameters and Reporting Limits**, lists assessment monitoring constituents analyzed from site groundwater samples. Lab reports and COC records for the monitoring period are presented in **Appendix C**.

3.5.5 Monitoring Period Sampling Events Summary

As required by § 257.90(e) and ADEM Admin. Code r. 335-13-15-.06(1)(e), the following describes monitoring-related activities performed during the monitoring period. The first semi-annual monitoring event took place between May 23, 2022, and May 31, 2022. The second semi-annual monitoring event took place between October 31, 2022, and November 10, 2022.

Groundwater samples were analyzed for the full list of Appendix III and Appendix IV parameters during the Monitoring event. During the 2022 semi-annual sampling events, additional general chemistry and monitored natural attenuation monitoring parameters were sampled and analyzed. These analytes have been incorporated for continued evaluations of geochemical facies and their evolution over time. These analytes will also support geochemical modeling and evaluations associated with monitored natural attenuation. These parameters include:

- Calcium (filtered)
- Iron (total and dissolved)
- Silicon (total and dissolved)

- Silica (total and dissolved)
- Sodium (total and dissolved)
- Sulfide
- Potassium
- Aluminum (total and dissolved)
- Manganese
- Magnesium (total and filtered)
- Nitrate-Nitrite
- Total Alkalinity, Carbonate Alkalinity, Bicarbonate Alkalinity
- Total Organic Carbon.

All groundwater sampling activities were conducted by APC Field and Water Services. Pace Analytical Services performed the laboratory analyses of Radium-226 and Radium-228 (reported combined). APCEL performed the remaining Appendix III and Appendix IV analyses. Analytical data from the groundwater monitoring event is included as **Appendix C** in accordance with the requirements of § 257.90(e)(3) and ADEM Admin. Code r. 335-13-15-.06(1)(f)3.

4.0 GROUNDWATER ELEVATIONS

During the May 2022 sampling event, depths to water ranged from 4.48 to 26.11 feet below top of casing (BTOC) and groundwater elevations ranged from 6.75 to 1.71 feet above mean sea level (ft MSL) from west (near Gypsum Pond) to east (Ash Pond). **Figure 6A, Potentiometric Surface Contour Map (May 23, 2022)**, depict groundwater elevations and inferred groundwater flow direction during the first 2022 semi-annual sampling event.

During the October 2022 sampling event, depths to water ranged from 4.54 to 26.38 feet below top of casing (BTOC) and groundwater elevations ranged from 5.79 to 1.25 feet above mean sea level (ft MSL) from west (near Gypsum Pond) to east (Ash Pond). **Figure 6B, Potentiometric Surface Contour Map (October 31, 2022)**, depict groundwater elevations and inferred groundwater flow direction during the second 2022 semi-annual sampling event. Many vertical delineations wells (denoted with a “V”) installed deeper within Unit 3 sands display groundwater elevations higher than the more shallow, paired location. This indicates some level of confining conditions between the two zones in some locales and indicates an upward vertical gradient in which deeper groundwater is flowing upwards towards more shallow intervals.

As shown on **Figures 6A and 6B**, groundwater flows from south to north across the Site, consistent with previous events. Tidal influences in river stage likely influence groundwater elevations – especially in closer proximity to the river. River stage varied from approximately 1.7 feet to 2.6 feet elevation during the May 23, 2022 gauging event and 1.32 feet to 2.50 feet during the October 31, 2022 gauging event and are reflected in groundwater elevations presented north and east of the Ash Pond. A convergence of flow from the north and south appear in the vicinity of well BY-AP-MW-14 is apparent as presented on **Figures 6A and 6B**.

Groundwater elevations from well BY-AP-MW-1 are not factored into potentiometric surfaces as this well is installed in a perched or laterally discontinuous sand layer beneath the Unit 1 clay and data shows vertical confinement between this layer and Unit 3. Recent groundwater elevation data has been tabulated and included in **Table 3, Recent Groundwater Elevations Summary**. All available historical groundwater elevation data recorded since 2016 has been tabulated and included in **Appendix B**.

4.1 GROUNDWATER FLOW VELOCITY CALCULATIONS

Groundwater flow rates at the site were calculated based on hydraulic gradients, hydraulic conductivity from aquifer pump test results, and an estimated effective porosity of the screened horizon. Slug testing

provided horizontal hydraulic conductivities for the Watercourse Aquifer (Unit 3) between 2.1×10^{-2} cm/sec and 6.75×10^{-3} cm/sec with an average of 1.0×10^{-2} cm/sec at the Ash Pond. Long duration pump testing of the Watercourse Aquifer revealed an average hydraulic conductivity of 3.3×10^{-3} cm/sec. The pumping test hydraulic conductivity value of 3.3×10^{-3} cm/sec or 9.4 ft/day was used because the larger volume of aquifer allows averaging of small-scale heterogeneities, while slug tests are smaller in scale and could allow some results to skew an average. An effective porosity of 25% was used based on the default values for effective porosity recommended by EPA for a silty sand-type soil (U.S. USEPA, 1996). The hydraulic gradient was calculated between well pairs shown in **Appendix D, Horizontal Groundwater Flow Velocity Calculation**.

Horizontal flow velocity was calculated using the commonly used derivative of Darcy's Law:

$$V = \frac{K * i}{n_e}$$

Where:

V = Groundwater flow velocity $\left(\frac{feet}{day}\right)$

K = Average permeability of the aquifer $\left(\frac{feet}{day}\right)$

i = Horizontal hydraulic gradient

n_e = Effective porosity

Appendix D presents the estimated horizontal flow velocity calculated using groundwater elevation data from the 2022 semi-annual sampling events.

5.0 EVALUATION OF GROUNDWATER QUALITY DATA

During each sampling event, quality assurance/quality control samples (QA/QC) were collected at a rate of one sample per every group of 10 well samples. These QA/QC samples include well duplicates, equipment blanks, and field blanks. Routine analyses of field QA/QC samples are a method for evaluating whether artificial bias could have been introduced into lab results by ways of sampling activities or equipment.

5.1 DATA VALIDATION – QUALITY ASSURANCE/QUALITY CONTROL

Analytical precision is measured through the calculation of the relative percent difference (RPD) of two data sets generated from a similar source. Here, a comparison of results between samples and field duplicate samples is used as measure of laboratory precision. Where field duplicates are collected, the RPD between the sample and duplicate sample is calculated as:

$$RPD = \frac{Conc1 - Conc2}{(Conc1 + Conc2)/2}$$

Where:

RPD = Relative Percent Difference (%)

Conc1 = Higher concentration of the sample or field duplicate

Conc2 = Lower concentration of the sample or field duplicate

Where RPD is below 20%, the difference is considered acceptable, and no further action is needed. Where an RPD is greater than 20%, further evaluation is required to attempt to determine the cause of the difference and potentially result in qualified data. **Table 4a, Relative Percent Difference (RPD) Calculations**, provides the relative percent differences for sample and sample duplicates during the first and second semi-annual monitoring events of 2022. Fluoride and Sulfate were detected during the first semi-annual sampling event at low level concentrations of duplicate groundwater samples collected from well locations BY-GSA-MW-15 and BY-UP-MW-13, respectively. Though RPD values exceeded 20%, both sample and duplicate concentrations were less than five times the MDL/RL. Consequently, validation flags to indicate RPD criteria failure were not required. All RPDs were below 20% for the second 2022 semi-annual sampling event.

Analytical data reviewed provided low-level or trace detections in field and or equipment blanks during the monitoring period sampling event. **Table 4b, Field QC: Blank Detections** provides a summary of low-level detections observed during the 2022 semi-annual monitoring events. Each of these detections were estimated concentrations, above the MDL but below the RL, and qualified in the laboratory analytical reports with “J flags.” However, if concentrations are detected above the MDL in field QC samples, original results on the (1) date of a blank detection and (2) with a value less than 5 times the field QC detection are flagged with a (+) U* and MDL/RL values modified based upon the blank concentration.

Validated flags do not have an impact on possible statistical analyses due to: (1) low-level concentrations flagged during validation and or (2) constituents flagged are not Site COI. The extent of trace chromium detections in blanks can be explained by a low MDL value of 0.000203 mg/L.

5.2 STATISTICAL METHODOLOGY AND TESTS

Sanitas software is used to perform statistical analyses of Site data. Sanitas is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by EPA regulations. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the USEPA Unified Guidance (2009).

5.2.1 Appendix III Evaluation

Intrawell prediction limits, combined with a 1-of-2 verification strategy, are used for pH and sulfate to determine whether there has been a statistically significant increase (SSI) over background groundwater quality. Interwell prediction limits, combined with a 1-of-2 verification strategy, are used to evaluate boron, calcium, chloride, fluoride, and TDS. Intrawell prediction limits use screened historical data within a given well to establish limits for parameters at that well. The most recent sample from the same well is compared to its respective background to identify SSIs over background. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to identify SSIs.

Groundwater Stats Consulting demonstrated that these test methods were appropriate in the October 2017 Statistical Analysis Plan, which was updated in the September 2019 data screening evaluation and also, included in the revised Statistical Analysis Plan (August 2020). Time series plots were used to screen proposed background data for suspected outliers, or extreme values that would result in limits that are not

conservative from a regulatory perspective. Suspected outliers at all wells for Appendix III parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database.

According to the Unified Guidance, the following adjustments are considered part of the statistical analysis program:

- No statistical analyses are required on wells and analytes containing 100% non-detects (EPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in the background, simple substitution of one-half the reporting limit is used in the statistical analysis. The reporting limit used for non-detects is the practical quantitation limit (PQL) as reported by the laboratory.
- When data contain between 15% and 50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data
- Non-parametric prediction limits are used on data containing greater than 50% non-detects.

5.2.2 Appendix IV Evaluation

When in corrective action monitoring, Appendix IV constituents are sampled semi-annually, and concentrations are statistically compared to GWPS. Following the Unified Guidance, spatial variation for Appendix III parameters is tested using the ANOVA; this test is not prescribed for Appendix IV constituents. Unlike the statistical evaluation of Appendix III constituents (where single-sample results are compared to the statistical limit), Appendix IV analysis uses the pooled results from each downgradient well to develop a well-specific Confidence Interval that is compared to the statistical limit. The statistical limit is either the Interwell Tolerance Limit (i.e., background) calculated using the pool of all available upgradient well data (see Chapter 7 of the Unified Guidance), or an applicable groundwater protection standard such as the MCL. Appendix IV background data are screened for outliers and extreme trending patterns that would lead to artificially elevated statistical limits.

Parametric tolerance limits (i.e. UTLs) were calculated using pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The UTLs were then used as the GWPS.

As described in 40 CFR § 257.95(h)(1)-(3) and the ADEM Variance the GWPS is:

- (1) The maximum contaminant level (MCL) established under 40 CFR §141.62 and 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L.
 - (ii) Lead 0.015 mg/L.
 - (iii) Lithium 0.040 mg/L.
 - (iv) Molybdenum 0.100 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

In corrective action monitoring, when the Lower Confidence Limit (LCL), or the entire confidence interval, exceeds the GWPS as discussed in the USEPA Unified Guidance (2009), the result is recorded as an SSL. Data from upgradient wells collected in between updates may still be used to support ASDs if merited.

5.3 STATISTICAL EXCEEDANCES

Analytical data from the 2022 semi-annual monitoring events were statistically analyzed in accordance with the professional engineer (PE)-certified Statistical Analysis Plan (October 2017 and revised in August 2020) by Groundwater Stats Consulting. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV monitoring parameters were evaluated to determine if concentrations statistically exceeded the established groundwater protection standard.

5.3.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix E, Statistical Analysis** Appendix III constituents have not returned to background levels.

5.3.2 Appendix IV Constituents

Table 5, Summary of Background Levels and Groundwater Protection Standards, summarizes the background limit established at each monitoring well and the GWPS. A summary table of the statistical limits accompanies the prediction limits in **Appendix E**.

5.3.2.1 First Semi-Annual Groundwater Monitoring Event

Statistical analysis of Appendix IV data identified the following SSLs over GWPS at the listed wells during the first 2022 semi-annual monitoring event:

- BY-AP-MW-1: Arsenic.
- BY-AP-MW-5: Arsenic
- BY-AP-MW-7: Arsenic, Cobalt.
- BY-AP-MW-8: Arsenic.
- BY-AP-MW-9: Arsenic.
- BY-AP-MW-10: Arsenic.
- BY-AP-MW-11: Arsenic.
- BY-AP-MW-12: Arsenic.
- BY-AP-MW-13: Arsenic.
- BY-AP-MW-14: Arsenic.
- BY-AP-MW-15: Arsenic, Cobalt.
- BY-AP-MW-16: Arsenic.

Table 6, First Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the first 2022 semi-annual sampling event.

5.3.2.2 Delineation Wells

Analytical data derived from delineation wells are not statistically analyzed. A review of analytical data derived from delineation wells identified the following GWPS exceedances during the first 2022 semi-annual sampling event:

- BY-AP-MW-12V: Arsenic.
- BY-AP-MW-13V: Arsenic.
- BY-AP-MW-15V: Arsenic, Cobalt.
- BY-AP-MW-17H: Arsenic.
- BY-AP-MW-17V: Cobalt.
- BY-AP-MW-18H: Arsenic.
- BY-AP-MW-20H: Arsenic.
- BY-AP-MW-20V: Arsenic, Cobalt.
- BY-AP-MW-22H: Arsenic.
- BY-AP-MW-24H: Arsenic.

The analytical result for combined radium 226 + 228 in well BY-AP-MW-17V on May 25, 2022, provided a result of 5.37 pCi/L. This result exceeds the GWPS, and upon an initial review of historical data, was notably different than the historical concentration range (Non-Detect – 2.94 pCi/L) and no previous upward trend was observed. Additionally, analytical result for combined radium 226 + 228 ranged from non-detect in two pore-water samples to 0.474 pCi/L) in one pore water sample.

5.3.2.3 Second Semi-Annual Groundwater Monitoring Event

Statistical analysis of Appendix IV data identified the following SSLs over GWPS at the listed wells during the second 2022 semi-annual monitoring event:

- BY-AP-MW-1: Arsenic.
- BY-AP-MW-5: Arsenic
- BY-AP-MW-7: Arsenic.
- BY-AP-MW-8: Arsenic.
- BY-AP-MW-9: Arsenic.
- BY-AP-MW-10: Arsenic.
- BY-AP-MW-11: Arsenic.
- BY-AP-MW-12: Arsenic.
- BY-AP-MW-13: Arsenic.
- BY-AP-MW-14: Arsenic.
- BY-AP-MW-15: Arsenic, Cobalt.
- BY-AP-MW-16: Arsenic.

Table 7, Second Semi-Annual Monitoring Event Analytical Summary, provides a summary of all detected constituents for the second 2022 semi-annual sampling event.

5.3.2.4 Delineation Wells

A review of analytical data derived from delineation wells identified the following GWPS exceedances during the second 2022 semi-annual sampling event:

- BY-AP-MW-12V: Arsenic.
- BY-AP-MW-13V: Arsenic.
- BY-AP-MW-15V: Arsenic, Cobalt.

- BY-AP-MW-17H: Arsenic.
- BY-AP-MW-17V: Cobalt.
- BY-AP-MW-18H: Arsenic.
- BY-AP-MW-20H: Arsenic.
- BY-AP-MW-20V: Arsenic, Cobalt.
- BY-AP-MW-22H: Arsenic.
- BY-AP-MW-24H: Arsenic.

The analytical result for combined radium 226 + 228 in well GC-AP-MW-17V on October 31, 2022, provided a result of 5.26 pCi/L. This result exceeded the GWPS for the second consecutive time and the well was re-sampled on December 20, 2022. The re-sampled analytical result for combined radium 226 + 228 in well GC-AP-MW-17V provided a result of 8.68 pCi/L. Further investigation into the recent combined radium 226 + 228 exceedances are being conducted and will be addressed in the First 2023 Semi-Annual Report.

Details regarding the installation and sampling of these wells, and future proposed actions as a result of these exceedances, were submitted to ADEM in a Groundwater Investigation Report on May 13, 2019, and subsequent progress updates submitted in September 2019, March 2020, and on September 30, 2020.

To address SSLs at the site, an ACM was prepared to evaluate potential groundwater corrective measures for the occurrence of arsenic and cobalt in groundwater at the site in accordance with § 257.96, ADEM Admin. Code r. 335-13-15-.06(7), and ADEM AO 18-094-GW. The ACM was submitted to ADEM and placed in the operating record on June 12, 2019. A Groundwater Remedy Selection Report was prepared and submitted to ADEM on October 29, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on January 27, 2022, for review.

6.0 GROUNDWATER ASSESSEMENT

As required by Part E of the Order (AO 18-094-GW) and correspondence from ADEM (March 2021), this report provides an update on groundwater delineation activities completed since the submittal of the Facility Plan for Groundwater Investigation (November 13, 2018). The primary purpose of this plan and subsequent phases of work were to identify the horizontal and vertical extent of groundwater impacts defined by EPA Appendix IV groundwater protection standards.

A comprehensive groundwater delineation report summarizing findings was submitted to ADEM in September 2020. The conclusions and results presented indicate that groundwater delineation have been completed to a sufficient degree to define spatial extent of groundwater impacts and to inform a groundwater remedy selection plan.

6.1 CHRONOLOGY OF DELINEATION ACTIVITIES

Beginning in 2019, Semi-Annual Progress Reports have routinely been provided to ADEM in March and September, annually. Alabama Power Company (APC) requested approval to combine information typically provided in the Semi-Annual Progress Reports with Semi-Annual Groundwater Monitoring and Corrective Action Reports on March 15, 2021. ADEM approved this approach and revised timeline for submittals on March 16, 2021. APC will now provide the Department with a discussion of delineation results and corrective action activities in each semi-annual groundwater monitoring and corrective action report (July; January) until released in writing.

6.1.1 Delineation Wells

Part B of the Order required the installation of additional wells as necessary to define the extent of groundwater impacts where Appendix IV constituents are identified at SSLs above the GWPS. Using the conceptual site model (CSM) and analytical results as a guide, horizontal delineation wells were installed to assess lateral extent of groundwater impact in the direction(s) of groundwater flow away from the facility in the upper and middle portions of the Unit 3 sands. Vertical delineation wells were also installed at the base of the Watercourse Aquifer (Unit 3 sands), just above the Unit 4 clay, to assess vertical extent of groundwater impacts to the Watercourse Aquifer. The follow sections describe monitoring wells installed to delineate impacts to groundwater:

Phase I – Groundwater Investigation (December 2018 to December 2019)

Phase I was conducted between the dates of December 2018 to December 2019. **Table 1b** and **Figure 5** present details and locations of on-site delineation wells. The following summarizes all activities that were completed during Phase I of groundwater delineation at the Site:

- Installed six vertical delineation wells (BY-AP-MW-1V, BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-10V, and BY-AP-MW-12V), three horizontal delineation wells (BY-AP-MW-17H, BY-AP-MW-18H, and BY-AP-MW-24H), and three ash pore-water piezometers (BY-AP-PW-24, BY-AP-PW-25, and BY-AP-PW-26) between December 11, 2018 and January 4, 2019. The remaining scope of delineation well installations described in the Facility Plan could not be achieved at the time due to flooded or wet conditions and were installed in July 2019.
- Collected nine ash samples for waste characterization analyses.
- Developed the six vertical delineation wells and three horizontal delineation wells between December 20, 2018, and January 8, 2019. Horizontal delineation well BY-AP-MW-18H could not be developed until March 20, 2019, due to persistent flood conditions over low-lying areas.
- Collected samples from each delineation and characterization well except BY-AP-MW-17H between January 7, 2019, and March 21, 2019. BY-AP-MW-17H was sampled July 31, 2019.
- Submitted a preliminary Groundwater Investigation Technical Memo to the Department on May 13, 2019. Submitted an Assessment of Corrective Measures for the Ash Pond to the Department on July 11, 2019, as required by Part C of the Order.
- Installed the four remaining horizontal delineation wells (BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-22H, AND BY-AP-MW-23H) and one vertical delineation well (BY-AP-MW-15V) in July 2019. Previously proposed horizontal delineation well BY-AP-MW-21H located south of the Ash Pond and monitor well BY-AP-MW-14 has not been installed due to pervasive wet and unsafe conditions for drilling and therefore, could not be safely accessed to install as planned.
- Developed and sampled the four horizontal delineation wells and one vertical delineation well between July 28, 2019, and August 2nd, 2019.
- Submitted Groundwater Investigation Report on December 15, 2019, to the Department summarizing Phase I groundwater investigation findings and included a work plan for a Phase II investigation.

- Provided the Department with a response on December 30, 2019, for comments received from the Department on November 14, 2019, regarding previously submitted CCR documents.
- Submitted the 2019 Annual Groundwater Monitoring and Corrective Action Report on January 31, 2020.

Phase II – Groundwater Investigation (February 2020 to June 2020)

Following a review of data gathered from the Phase I Investigation, additional groundwater investigation was proposed to the ADEM in the Groundwater Investigation Report submitted December 15, 2019. The review of delineation results discussed in preceding sections indicated that an additional phase of investigation was warranted to complete delineation in certain areas of the Site. Phase II was conducted between the dates of February 2020 to June 2020. The following summarizes all activities that were completed during Phase II of groundwater delineation at the Site:

- Completed the semi-annual assessment groundwater sampling event between March 30, 2020, and April 1, 2020.
- Installed seven deep vertical delineation wells (BY-AP-MW-13V, BY-AP-MW-14V, BY-AP-MW-16V, BY-AP-MW-17V, BY-AP-MW-20V, BY-AP-MW-23V, and BY-AP-MW-25V) and one horizontal delineation well (BY-AP-MW-25H) between March 25, 2020, and April 13, 2020.
- Advanced two Type III (double-cased) deep vertical delineation well borings (BY-AP-MW-12VM, and BY-AP-MW-15VM,) between March 28, 2020, and April 23, 2020. BY-AP-MW-12VM was abandoned and BY-AP-MW-15VM was installed as a water level only piezometer.
- Developed eight delineation wells and one piezometer between May 4, 2020, and May 19, 2020. Partial development via airlifting was also employed while the drilling team was on-site in March 2020.
- Sampled the eight delineation wells between June 15, 2020, and June 17, 2020.

6.2 NATURE AND ESTIMATED QUANTITY OF RELEASE

Part B of the Order requires collecting data on the nature and estimated quantity of material released. To collect data regarding the nature of the source and estimated quantity of material released leachability testing of 9 ash samples and sampling of ash pore-water at 3 locations was conducted. Leachability testing was conducted for EPA Resource and Recovery Act (RCRA) heavy metals, while ash pore-water was

sampled for all EPA Appendix III and IV constituents. Groundwater quality data is compared to source water and leachate composition to provide a basis for evaluating the degree to which the source area has contributed constituents to groundwater.

6.3 DISCUSSION OF DELINEATION RESULTS

Two phases of delineation investigation have been completed at the site and the horizontal and vertical delineation of Appendix IV SSLs arsenic and cobalt, is largely complete. Additional delineation to define the horizontal extent of arsenic occurrences to the south of the Ash Pond is not practical, as the extent is constrained by surface waters. Sufficient data has been collected for the assessment of corrective measures and to develop a groundwater corrective action plan. Cross-sections and isoconcentration maps have been included to convey horizontal and vertical spatial distribution of arsenic and cobalt concentrations.

Lithium was identified at vertical delineation well BY-AP-MW-7V on January 9, 2019, during delineation efforts for arsenic and cobalt. However, during the seven subsequent sampling events, lithium in well BY-AP-MW-7V was not detected indicating that the initial occurrence of lithium was likely the result of sampling or analytical error. An additional re-sample was collected on December 2, 2019, and the result for lithium was non-detect. Additional delineation is not required in the area of this delineation well at this time. Lithium was detected above GWPS in well BY-AP-MW-7 (0.0882 mg/L) for the first time during the first 2021 semi-annual groundwater sampling event but was below GWPS (0.04 mg/L) during the second 2021 and the 2022 semi-annual groundwater sampling events. Additionally, a lithium concentration of 0.0484 mg/l was detected at vertical delineation well BY-AP-MW-13V slightly above the GWPS for the first time during the second 2021 semi-annual groundwater sampling event. Lithium concentration in delineation well BY-AP-MW-13V were below GWPS during the 2022 semi-annual sampling events. Historically, lithium has been detected above GWPS one time in three Site wells (BY-AP-MW-7V, BY-AP-MW-7, and BY-AP-MW-13V).

Analytical results from horizontal and vertical delineation wells identified concentrations above GWPS of EPA Appendix IV constituents: arsenic and cobalt during the first and second semi-annual monitoring events of 2022.

Figure 7A, Arsenic Isoconcentration Map (May 2022) and Figure 7C, Arsenic Isoconcentration Map (October - November 2022), illustrate the horizontal extent of arsenic impacts to groundwater from the first and second 2022 semi-annual sampling events. **Figure 8A, Arsenic Concentrations Along Geologic Cross Section A-A' (May 2022), Figure 8B, Arsenic Concentrations Along Geologic Cross Section B-**

B' (May 2022), **Figure 8C, Arsenic Concentrations Along Geologic Cross Section A-A'** (October – November 2022), and **Figure 8D, Arsenic Concentrations Along Geologic Cross Section B-B'** (October – November 2022) illustrate the vertical extent of arsenic impacts to groundwater from the first and second 2022 semi-annual sampling events.

Figure 7B, Cobalt Isoconcentration Map (May 2022) and **Figure 7D, Cobalt Isoconcentration Map (October-November 2022)**, illustrate the horizontal extent of cobalt from the first and second 2022 semi-annual sampling events. **Figure 9A, Cobalt Concentrations Along Geologic Cross Section A-A' (May 2022)**, **Figure 9B, Cobalt Concentrations Along Geologic Cross Section B-B' (May 2022)**, **Figure 8C, Cobalt Concentrations Along Geologic Cross Section A-A' (October – November 2022)**, and **Figure 8D, Arsenic Concentrations Along Geologic Cross Section B-B' (October – November 2022)** illustrate the vertical extent of cobalt impacts to groundwater from the first and second 2022 semi-annual sampling events.

Isoconcentration lines shown on **Figures 7A** through **7D** are data-driven contours derived from the spatial distribution of constituent concentrations in the well network. When spatially distributed objects are correlated (i.e., objects close together with similar characteristics are compared), mathematical interpolation can be used to predict quantities between the objects. In this case, the Geostatistical Analyst tool within ArcGIS was utilized to interpolate constituent concentrations between well locations within the area where concentrations were above laboratory method detection limits.

In cases where concentrations decrease below the GWPS in between well pairs, the extent of groundwater impacts are interpreted from the interpolated (predicted) data set. This takes into account the spatial pattern of decreasing concentrations observed in nearby wells.

The location and spacing of delineation wells are largely based upon the following goals and site factors:

1. Determine if impacts to groundwater could extend off-site in the direction of groundwater flow away from the facility.
2. Evaluate potential for vertical migration adjacent to compliance wells with SSLs and within the context of site hydrogeology.
3. Address key data gaps between phases – working in from property line or off-site depending on gaps.
4. Ability to safely access locations with drill rig and supporting equipment.
5. Occurrence of groundwater and sufficient groundwater yield/recharge at locations.

6. Delineate extent of impacts and capture additional hydrogeologic data necessary to evaluate the feasibility of groundwater remediation technologies.
 - As shown on **Table 1b**, 22 delineation wells and one piezometer have been installed at the site to assess horizontal and vertical potential impacts.

Compliance (assessment) monitoring and delineation sampling events have shown elevated arsenic and cobalt in the Watercourse Aquifer beneath the Site. Arsenic is the most widely distributed of these constituents and this spatial distribution generally mimics the groundwater flow direction across the Site as shown on **Figure 6**. Groundwater flow can generally be described as from west to east across the Site with bends to the north and southeast conforming to the shape of the Mobile River. A truly radial flow pattern is not evident at the Site because the Ash Pond is directly underlain by a low permeability, organic clay of sufficient thickness to form an aquitard between the Ash Pond and underlying Watercourse Aquifer (Unit 1). While piezometric data (groundwater elevations) presented on potentiometric surfaces are generally above the base of ash this does not mean that ash is in direct communication with the Watercourse Aquifer because piezometric elevations (groundwater elevations) are representative of the potential head in wells tapping the aquifer not the vertical elevation in which groundwater occurs. Beneath the Ash Pond, the Unit 1 clay physically and hydraulically separates ash pore water and Watercourse Aquifer groundwater and therefore, constituent migration occurs slowly across the Unit 1 clay and is driven by higher hydraulic heads (vertical gradient) in the Ash Pond relative to the underlying Watercourse Aquifer.

Horizontal delineation efforts at the Site are restricted to a high degree by physical site conditions. Year-round wet conditions exist a short distance away from the base of the Ash Pond dike in many areas around the Ash Pond. Except for areas to the far north of the pond, all other areas are inaccessible during the wet season and during the timeframe it takes to dry out post-wet season. Vertical delineation efforts largely focused near the base of the Unit 3 sand and above the Unit 4 clays.

6.3.1 Arsenic Delineation

The most recent semi-annual sampling results from 22 Phase I and Phase II delineation wells show that arsenic concentrations above the GWPS (0.01 mg/L) extend proximal to the river and include one horizontal delineation well to the north (BY-AP-MW-17H), one horizontal delineation well (BY-AP-MW-20H) and two vertical delineation wells (BY-AP-MW-12V and BY-AP-MW-20V) to the southeast, and two horizontal delineation wells (BY-AP-MW-22H and BY-AP-MW-24H) and one vertical delineation well (BY-AP-MW-15V) to the southwest of the Ash Pond in the direction of groundwater flow. In general, groundwater impacted by arsenic is distributed spatially into two lobes – (1) a smaller lobe that underlies

the very northwestern corner of the Ash Pond and extends in the direction of groundwater flow north-northwest to the plant proper and (2) an eastern lobe that extends east of the Ash Pond.

These two lobes are separated by a north to north-northeast trending wedge of un-impacted groundwater water between the western boundary (between wells MW-1 and MW-5) and the northern boundary (between well pair MW-17H/17V and well MW-18H) as shown on **Figures 7A and 7C**. It is not understood exactly why this wedge exists, but wells within this area also display different geochemical facies than surrounding downgradient wells (calcium-chloride to sodium-chloride water vs calcium-magnesium bicarbonate to calcium-sodium bicarbonate water).

Arsenic concentrations over the GWPS did not extend to any of the vertical delineation wells (BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-17V, BY-AP-MW-23V, and BY-AP-MW-25V) and horizontal delineation well BY-AP-MW-23H, located to the north, northwest, or northeast of the Ash Pond. Horizontal delineation well BY-AP-MW-25H and vertical delineation well BY-AP-MW-25V were installed to define the extent of arsenic impacts to the west of BY-AP-MW-17H/V and northwest of BY-AP-MW-5 and have historically been non-detect (**Appendix A** and **Tables 6** and **7**). Arsenic concentrations over the GWPS did not extend to delineation wells BY-AP-MW-10V and BY-AP-MW-19H to the northeast, BY-AP-MW-13V and BY-AP-MW-14V to the southeast, or BY-AP-MW-16V, BY-AP-MW-1V, and BY-AP-MW-5V to the west.

Arsenic concentrations exceed the GWPS in horizontal delineation wells BY-AP-MW-17H and BY-AP-MW-18H located at the property boundary (Mobile River) northwest and northeast of the Ash Pond. Arsenic concentrations exceed the GWPS in horizontal delineation wells BY-AP-MW-20H, BY-AP-MW-22H and BY-AP-MW-24H located southeast and southwest of the Ash Pond. To the southeast, south, and southwest of the Site, horizontal delineation wells could not be installed proximal to the property boundary due to wet or unsafe access conditions.

Vertically, arsenic concentrations are delineated within the Unit 3 sands. Arsenic concentrations were detected above the GWPS in one well, BY-AP-MW-15V, southwest of the Ash Pond and two wells, BY-AP-MW-12V and BY-AP-MW-20V, located along the southeast side of the Ash Pond, respectively.

Figure 8C, depicts the most recent spatial extent of arsenic SSLs along the “western dike”. The general spatial pattern matches the interpretation of groundwater flow at the Site. SSLs are observed to the northwest along section A-A’ and near the middle of the Ash Pond dike extending southwest. These impacts

are observed where groundwater elevation contours bend semi-radially to the northwest and southeast to conform to the geometry of the Mobile River and obliquely cross the western dike.

To the northwest, arsenic impacts to groundwater historically begin near well BY-AP-MW-5 and extend to delineation well BY-AP-MW-17H. Arsenic concentrations over the GWPS previously observed in the vicinity of BY-AP-MW-5 extend down to approximately -50 ft MSL and are delineated vertically downward to base of Unit 3 as observed in BY-AP-MW-5V and BY-AP-MW-17V. To the southwest, arsenic impacts initially are confined to sands of Unit 2 near BY-AP-MW-1 but slope down to the base of Unit 3 near well BY-AP-MW-15V and are delineated vertically with the installation of BY-AP-MW-15VM.

Phase II delineation location BY-AP-MW-15VM was designated as a water-level only piezometer. This location appears separated from the Watercourse Aquifer (Unit 2/3 sands) by a lower confining layer (Unit 4) of sufficient thickness to justify water level-only monitoring. BY-AP-MW-15VM encountered greater than 20 feet of the Unit 4 clays and demonstrates a groundwater elevation difference of 1.79 feet from paired Watercourse Aquifer well BY-AP-MW-15. The groundwater elevation observed in well BY-AP-MW-15VM also indicates an upward vertical gradient (i.e., groundwater flowing upwards), providing further support for a piezometer designation.

Figure 8D, depicts the most recent arsenic concentrations proximal to the eastern margin of the site following the same geometry as the Mobile River. In general, **Figure 8D** shows that arsenic SSLs in groundwater are generally contained within the Unit 3 sands with maybe some limited impacts to the very base of Unit 2. Arsenic impacts do not extend to the base of Unit 3 near BY-AP-MW-8V, BY-AP-MW-10V, BY-AP-MW-13V, or BY-AP-MW-14V.

Arsenic concentrations that do extend down to the base of Unit 3 as shown on **Figures 8C** and **8D** are confined by Unit 4 which displays sufficient clay thickness and low hydraulic conductivity (ranging from 1.15×10^{-7} cm/sec to 3.76×10^{-8} cm/sec) to serve as a lower confining unit. A piezometer (BY-AP-MW-15VM) installed in Unit 5 sands (Miocene) also displays an upward hydraulic gradient which prohibits downward vertical migration.

6.3.2 Cobalt Delineation

The most recent semi-annual delineation wells sampling results show that cobalt concentrations above the GWPS (0.0157 mg/L) are limited to small, localized areas northwest (BY-AP-MW-17V), southwest (BY-

AP-MW-15V and BY-AP-MW-16V), and southeast (BY-AP-MW-20V) of the Ash Pond. Compliance well BY-AP-MW-15 located along the southwest side of the Ash Pond exhibited cobalt above the GWPS (**Figure 7D**).

Cobalt concentrations over the GWPS do not extend to BY-AP-MW-7/7V, BY-AP-MW-8/8V, BY-AP-MW-23H/V, and BY-AP-MW-25H/V to the north, BY-AP-MW-1/1V and BY-AP-MW-5/5V to the west, BY-AP-MW-10/10V and BY-AP-MW-12/12V to the east, BY-AP-MW-13/13V and BY-AP-MW-14/14V to the southeast, or BY-AP-MW-22H to the south of BY-AP-MW-15.

Vertically, cobalt concentrations above the GWPS are delineated within the Unit 3 sands and extend to the base of Unit 3 sands at vertical delineation wells BY-AP-MW-17V to the north of the ash pond, BY-AP-MW-15V along the southwest side of the Ash Pond, and BY-AP-MW-20V along the southeast side of the Ash Pond. The cobalt concentration in vertical delineation well BY-AP-MW-16V was below GWPS during the first 2022 semi-annual sampling event but has exceeded GWPS three times all during the fall sampling events.

No other vertical wells at the Site returned cobalt concentrations above the GWPS. Vertically, cobalt concentrations are delineated as defined by the previously discussed; thickness of the Unit 4 clay provides sufficient vertical separation between the Unit 3 aquifer and deeper Miocene sand units, permeameter testing values ranging from 1.15×10^{-7} cm/sec to 3.76×10^{-8} cm/sec, and calculated groundwater elevations indicating an upward vertical gradient.

Cobalt has effectively been delineated at the Site and was not detected in ash pore-water samples. This, combined with the isolated occurrences of cobalt over GWPS, indicates potential for a natural source either driven by minor changes in lithology or changes in geochemistry. As shown on **Figures 9A through 9D**, cobalt exceedances typically occur at greater depths within Unit 3 where the lithology can change (more gravel) and geochemistry changes to a more favorable environment for cobalt mobilization. Cobalt occurrences over the GWPS will be thoroughly evaluated for an alternate source.

6.4 STATUS OF DELINEATION

A plan was executed to investigate potential impacts to groundwater at the Plant Barry ash pond. Two phases of delineation investigation have been completed at the site and the horizontal and vertical delineation of Appendix IV SSLs arsenic and cobalt, is largely complete. Additional delineation to define the horizontal extent of arsenic occurrences to the south of the Ash Pond is not practical, as the extent is

constrained by surface waters. Additional vertical delineation of Unit 4 clays confirmed thicknesses of greater than 20 feet and vertical hydraulic conductivity (K_z) values ranging from 5.91×10^{-7} cm/sec to 2.16×10^{-8} cm/sec (1.7×10^{-3} ft/d to 6.1×10^{-5} ft/d), demonstrated that Unit 4 clays do display sufficiently low permeability to be considered confining.

6.5 GROUNDWATER REMEDY AND CORRECTIVE ACTION

An Assessment of Corrective Measures (ACM) for groundwater impacts was conducted and formally submitted to ADEM in June 2019. Additional data analyses and investigations conducted since the ACM culminated with a more detailed Groundwater Remedy Selection Report, submitted in October 2021, and a Corrective Action Groundwater Monitoring Program document submitted in January 2022.

Submittal	Submittal Date	Purpose
Assessment of Corrective Measures	06/2019	Initial evaluation of the feasibility, performance, and implementation of known and emerging groundwater remediation technologies against site conditions and factors.
Groundwater Remedy Selection Report	10/2021	Formal selection and detailed description of groundwater remedies selected for implementation at the site.
Corrective Action Groundwater Monitoring Program	01/2022	Plan document to describe process and program for implementation and monitoring of groundwater remedies selected at the site.

6.5.1 Groundwater Remedy Selection

The Groundwater Remedy Selection Report described the selected remedies for groundwater corrective actions at the site:

- Source control to include dewatering, consolidation, and capping of the Site.
- Geochemical manipulation via injections in areas of relatively high concentrations of COI to remove them from groundwater and immobilize them in situ.
- Monitored natural attenuation (MNA) over the entire Site.

Closure of the CCR Unit — including dewatering, consolidation, and capping will greatly reduce source contributions to groundwater. Geochemical manipulation was selected because of its effectiveness, ease of implementation, versatility (ability to treat more than one COI with the same treatment solution), ability to implement in areas with limited working space, and no byproducts that would require further treatment or disposal. MNA was selected because substantial evidence indicates that it is currently occurring at the Site.

6.5.2 Corrective Action – Groundwater Monitoring Program

The Corrective Action Groundwater Monitoring Program describes early plans for implementation and monitoring of groundwater remedies described above. The Corrective Action Groundwater Monitoring Program will be performed at the Site in two stages.

- Stage 1 will include ongoing compliance monitoring, remedial effectiveness monitoring for geochemical manipulation (injection treatment) pilot studies, MNA performance monitoring, sentinel/clean-line monitoring (including surface water monitoring), and demonstration that Site conditions remain protective of potential human and ecological receptors. Prompt action will be taken should data or data trends indicate such actions are warranted.
- Stage 2 monitoring will be implemented upon Site closure, with the first 2 years of Stage 2 monitoring consisting of background data collection to serve as a baseline. Stage 2 monitoring will be composed of ongoing compliance monitoring, additional wells or sampling locations as needed to evaluate remedy effectiveness, additional MNA parameters as needed, mass and mass flux calculations, additional monitoring associated with permeation grouting (if implemented), re-evaluation of natural attenuation processes and efficacy every 10 years, and demonstration that Site conditions remain protective of potential human and ecological receptors.

Stage 1

The initial phase of Stage 1 has implementation tasks associated with each selected groundwater remedy that serve as a foundation for the remainder of Stage 1 and Stage 2:

Selected Remedy	Implementation Task(s)
Monitored Natural Attenuation	1. Implementation of expanded MNA sampling parameters. 2. Further assessment of MNA monitoring network.
Geochemical Injection	1. Complete laboratory treatability studies to evaluate reagent composition, dosing, effectiveness, and sequencing for in situ groundwater treatment of constituents of interest (COIs) via injection. Results from the treatability studies would be incorporated into an Underground Injection Control (UIC) permit application for the Site. 2. Implementation of geochemical injection pilot tests using data collected from the laboratory treatability studies and issuance of an UIC permit.
Source Control/Closure Activities	1. Evaluation of geochemical changes in groundwater with respect to transient closure activities (excavation, de-watering, etc.). 2. Implementation of field data collection instruments/telemetry within key monitoring wells to further understand the nature of geochemical changes over time and with respect to closure activities and MNA/geochemical modelling.

Implementation of Monitored Natural Attenuation

MNA sampling parameters were added to the sampling plans and analyzed in the laboratory during the May 2022 sampling event (Table 6). These parameters in addition to field parameters, Appendix III, and Appendix IV parameters are utilized to study the processes that govern or facilitate MNA as well as changes in geochemical conditions. Parameters will be included in the site geochemical model.

Geochemical Injection Pilot Testing Program

Laboratory treatability studies using Site aquifer media and impacted groundwater to evaluate reagent composition, dosing, effectiveness, and sequencing (if applicable) for in situ groundwater treatment of COIs via injection is currently being conducted. The Laboratory Treatability Study Work Plan is presented in **Appendix F**. Treatability tests include the following tasks and procedures prior to field implementation of an injection treatment pilot study.

- Selection and formulation of reagent solutions based on previous similar studies.
- Batch testing using multiple treatment solutions to determine the most effective formulations to carry forward to column testing.
- Column testing to better simulate field conditions, determine effectiveness, and evaluate potential release of COIs due to treatment (unintended consequences).
- Post-column testing, using selective sequential extraction, on treated soils to determine the long-term stability of the accumulated COIs.
- Results from the treatability studies would be incorporated into an Underground Injection Control permit application to be submitted to ADEM for approval prior to field implementation of an injection treatment pilot study.

The tentative schedule for this initial foundation phase is outlined as:

- Aquifer solids (soils) and groundwater sample collection from the selected pilot test areas – First and Second quarters of 2022 (complete).
- Laboratory batch and column testing, and selective sequential extraction of treated soil – Fourth quarter 2022 to Second quarter 2023 (in progress).
- Underground Injection Permit application –Third quarter 2023.
- Geochemical Injection Pilot Program – TBD, pending requisite documents and approvals supporting the injection program.

To facilitate further understanding of trends and correlating relationships, AquaTROLL instrumentation is being utilized at select key Site observation and monitoring well locations for the near continuous monitoring of field parameters. This additional data will allow for a better understanding of the degree of changes driven by dewatering and construction closure activities, the response of site flow systems, and possible correlations/changes noted in semi-annual monitoring data.

AquaTROLL instrumentation was installed during the 1st quarter of 2022 in previous dewatering pilot testing observation wells at the following locations along the northeast and northwest sides of the ash pond in the areas of closure construction are occurring:

- PRW-E1
- APT-OB-ED1S
- APT-OB-ED2D
- APT-OB-WD1S
- APT-OB-WD1D
- APT-OB-WD3S
- APT-OB-WD3D

6.5.3 Groundwater Quality Changes and Trends

Important groundwater quality changes or trends have been noted in **Section 6.3**. The key findings include:

- Compliance monitoring well, BY-AP-MW-7, exhibited an arsenic concentration (0.00873 mg/L) below GWPS for the first time during the second 2022 semi-annual sampling event and appears to be attributed to targeted closure construction dewatering efforts.
- Arsenic concentrations in horizontal delineation well BY-AP-MW-23H have been below GWPS for the last three semi-annual sampling events and have continued to decrease since the September 2020 sampling event.
- Arsenic concentrations in horizontal delineation well BY-AP-MW-18H was below GWPS (0.00934 mg/L) during the second semi-annual sampling event but exceeded the GWPS (0.0143 mg/L) during the first 2022 sampling event.

- Vertical delineation well BY-AP-MW-13V exhibited an arsenic concentration below GWPS (0.00887 mg/L) during the second semi-annual sampling event and slightly above GWPS (0.0102 mg/L) during the first 2022 sampling event.
- Arsenic was not detected above GWPS in any vertical delineation wells located north, northeast, northwest, or west of the ash pond and are limited to three vertical delineation wells, BY-AP-MW-12V and BY-AP-MW-20V to the southeast and BY-AP-MW-15V to the southwest of the ash pond.
- Compliance monitoring well, BY-AP-MW-7, exhibited a cobalt concentration (0.00239 mg/L) below GWPS during the second 2022 semi-annual sampling event and appears to be attributed to targeted closure construction dewatering efforts.
- Cobalt concentrations in vertical delineation well BY-AP-MW-16V were below GWPS (0.0139 mg/L) during the first 2022 sampling event and above the GWPS (0.0185 mg/L) during the second semi-annual sampling event. Cobalt concentrations have exhibited a seasonal trend of fluctuating concentrations above GWPS to below GWPS over the last six sampling events and currently has an average concentration of the GWPS (0.0157 mg/L).
- Cobalt concentrations in compliance well BY-AP-MW-4 have remained below GWPS during the second 2021 and both 2022 sampling events. BY-AP-MW-4 has exhibited a cobalt concentration above GWPS in only two of nineteen sampling events.
- Cobalt concentrations were detected above GWPS in only one compliance well (BY-AP-MW-15) and two vertical delineation wells (BY-AP-MW-15V and BY-AP-MW-16V) to the southeast, one vertical delineation well (BY-AP-MW-20) to the southwest, and one vertical delineation well (BY-AP-MW-17V) to the northwest of the ash pond.
- during the first 2022 semi-annual sampling event.
- Lithium concentrations were not detected in any monitoring wells above GWPS during the first 2022 sampling event.
- Historically, lithium has been detected above GWPS one time in three Site wells BY-AP-MW-7V (January 2019), BY-AP-MW-7 (May 2021), and BY-AP-MW-13V (October 2021).

Groundwater quality changes and/or trends are related to closure construction activities and will continue to be observed throughout the closure process. Many of the trends appear to be associated with the ash pond closure activities - namely the halt to sluicing and ash dewatering. Trends and groundwater quality changes will continue to be monitored throughout closure to evaluate assessment needs and to better inform groundwater remedy plans.

7.0 SUMMARY AND CONCLUSIONS

Semi-annual monitoring events were conducted in May 2022 and October and November 2022. Statistical evaluations of the monitoring data identified SSLs of Appendix IV constituents above the GWPS. To address previously identified SSLs, a Groundwater Remedy Selection Report was prepared and submitted to ADEM on October 29, 2021. Subsequently, within 90 days of remedy selection, a Corrective Action Groundwater Monitoring Program was developed and submitted to ADEM on January 27, 2022 for review.

The Corrective Action Groundwater Monitoring Program was prepared to detect potential downgradient changes in groundwater quality and assess the efficacy of the selected groundwater corrective action remedies. The Monitoring Program will supplement the ongoing CCR compliance groundwater monitoring currently being performed at the Site.

The following future actions will be taken or are recommended for the site:

- Complete the Laboratory Treatability Studies and draft and submit a Class V Underground Injection Control (UIC) permit application for the geochemical manipulation via injections that was selected as one of the corrective measures as described in the Groundwater Remedy Selection Report and will be included in a Class V UIC permit application. The laboratory treatability studies include the following tasks:
 - Conduct batch testing to evaluate removal of COIs, and selection of the optimum reagents and doses for column tests.
 - Conduct column testing to evaluate removal of COIs by mixing treatment reagents with site-specific impacted groundwater and applying to site-specific soils (aquifer solids) in columns; Appendix III and IV constituents will be measured in the column effluents to determine the reduction of COIs in groundwater, and to evaluate any unintended consequences of treatment (e.g., release of constituents from soils).
 - Conduct selective sequential extraction of post-column (treated) soils to help determine the sequestration mechanisms and stability of the COIs and their host solids.
 - After treatment, the post-column (treated) soils will be leached with upgradient (background) groundwater from the Site in additional column studies, to help assess long-term stability of the COIs and their host solids.

- Conduct the first semi-annual assessment monitoring event in the spring of 2023 and submit the semi-annual groundwater monitoring and corrective action report summarizing the findings to ADEM by July 31, 2023.

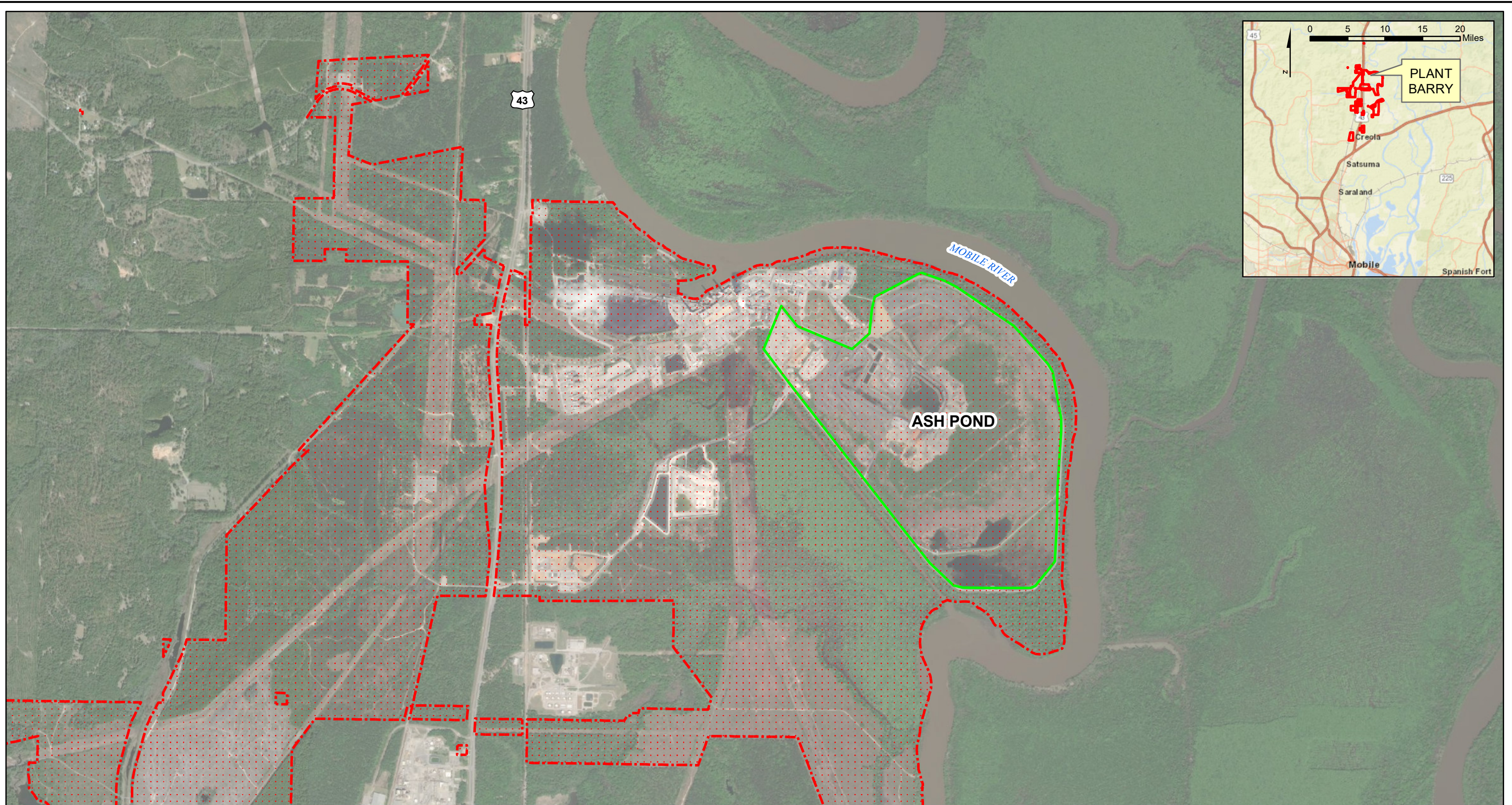
8.0 REFERENCES



- Alabama Department of Environmental Management (ADEM), 2018, Solid Waste Program, Division 13, ADEM Admin. Code r. 335-13-15.
- Anchor QEA, June 2019, Assessment of Corrective Measures Plant Barry Ash Pond.
- Anchor QEA, June 2021, Semi-Annual Remedy Selection and Design Progress Report Plant Greene County Ash Pond.
- Anchor QEA, October 2021, Remedy Selection Report Plant Barry Ash Pond.
- Anchor QEA, January 2022, Corrective Action Groundwater Monitoring Program Plant Barry Ash Pond.
- ASTM Standard D5092, 2004(2010)e1, Standard Practice for Design and Installation of Groundwater Monitoring Wells, ASTM International, West Conshohocken, PA, DOI 10.1520/D5092-04R10E01, www.astm.org.
- Chandler, R.V., Moore, J.D., and Gillet, B., 1985, Ground-water chemistry and salt-water encroachment, southern Baldwin County, Alabama: Alabama Geological Survey Bulletin 126, p. 166.
- Davis, M.E., 1987, Stratigraphic and Hydrogeologic Framework of the Alabama Coastal Plain, U.S. Geological Survey, Water-Resources Investigations Report 87-4112.
- Gillet, B., Raymond, D.E., Moore, J.D., and Tew, B.H., 2000, Hydrogeology and Vulnerability to Contamination of Major Aquifers in Alabama: Area 13, Geological Survey of Alabama.
- Hsu, K.J., 1960, Texture and mineralogy of the recent sands of the Gulf Coast, *Journal of Sedimentary Petrology*, vol. 30, p 380-403.
- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance.
- USEPA. 2015. Federal Register. Volume 80. No. 74. Friday April 17, 2015. Part II. Environmental Protection Agency. *40 CFR Parts 257 and 261. Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule*. [EPA-HQ-RCRA-2009-0640; FRL-9919-44-OSWER]. RIN-2050-AE81. April.
- United States Geological Survey (USGS), 1980 (Photorevised 1985), The Basin Alabama Quadrangle, 7.5 Minute Series Topographic Map.
- United States Geological Survey (USGS), 1982a (Photorevised 1985), Creola Alabama Quadrangle, 7.5 Minute Series Topographic Map.
- United States Geological Survey (USGS), 1982b, Mount Vernon Alabama Quadrangle, 7.5 Minute Series Topographic Map.

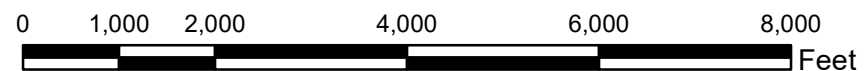
United States Geological Survey (USGS), 1983, Stiggins Lake Alabama Quadrangle, 7.5 Minute Series Topographic Map.

Walter, G.R., and Kidd, R.E., 1979, Ground-water management techniques for the control of salt-water encroachment in Gulf Coast aquifer, a summary report: Geological Survey of Alabama open-file report, p. 84.

Figures



- Legend**
-  Property Boundary (Approximate)
 -  Ash Pond Boundary

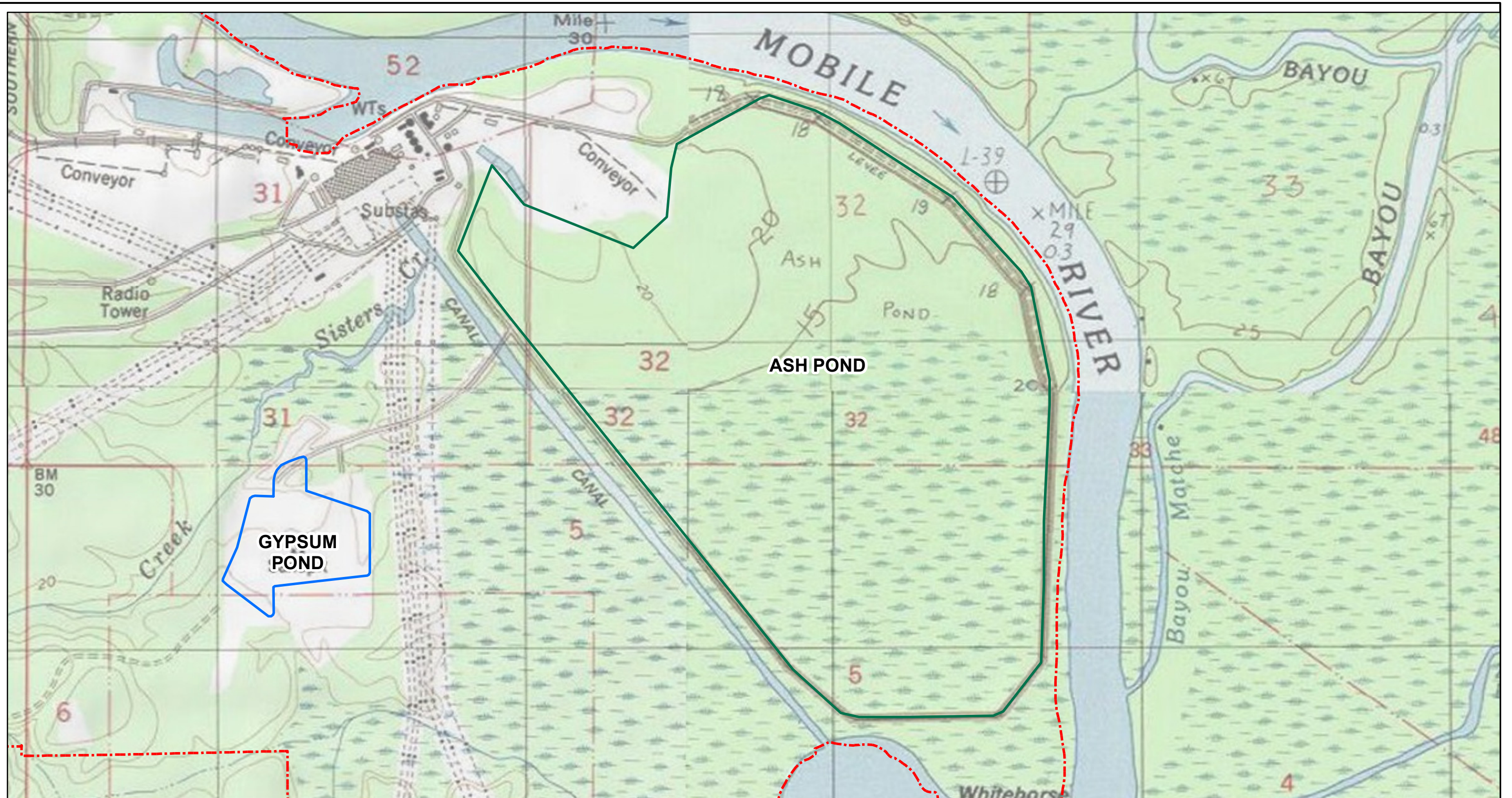


SCALE	1:24000
DATE	10/27/2020
DRAWN BY	KWR
CHECKED BY	GBD

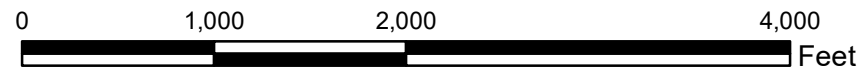
DRAWING TITLE
**SITE LOCATION MAP
 PLANT BARRY ASH POND**

FIGURE NO
FIGURE 1



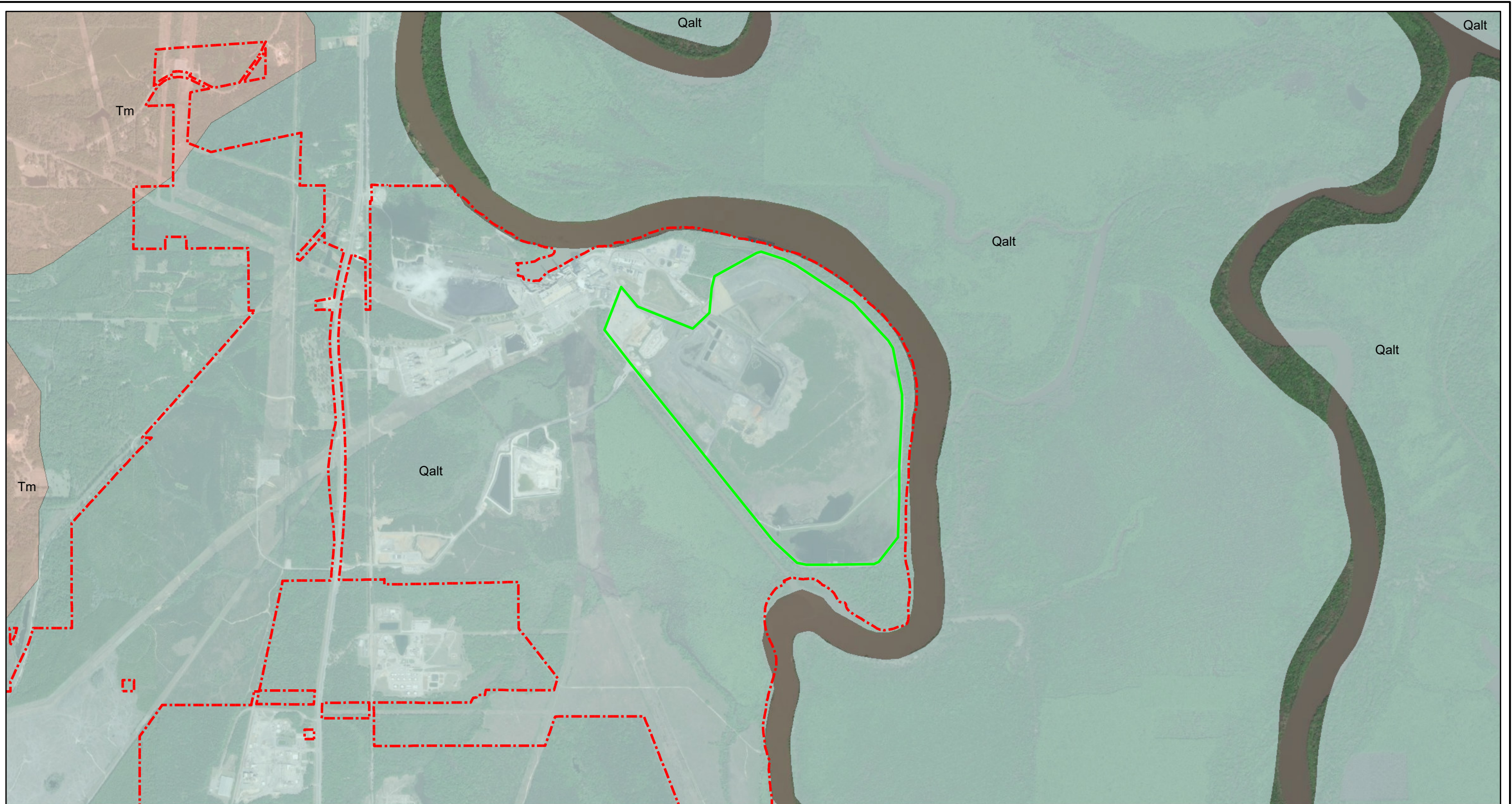


- Legend**
- Property Boundary (Approximate)
 - Ash Pond Boundary
 - Gypsum Pond Boundary



SCALE	1:12000
DATE	10/16/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE	
SITE TOPOGRAPHIC MAP PLANT BARRY ASH POND	
FIGURE NO	FIGURE 2
Southern Company	

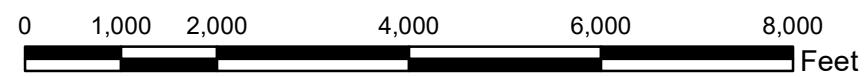


Legend

- Ash Pond Boundary
- Property Boundary (Approximate)

Geologic Units

- Alluvial, coastal, and low terrace deposits (Qalt)
- Miocene Series undifferentiated (Tm)

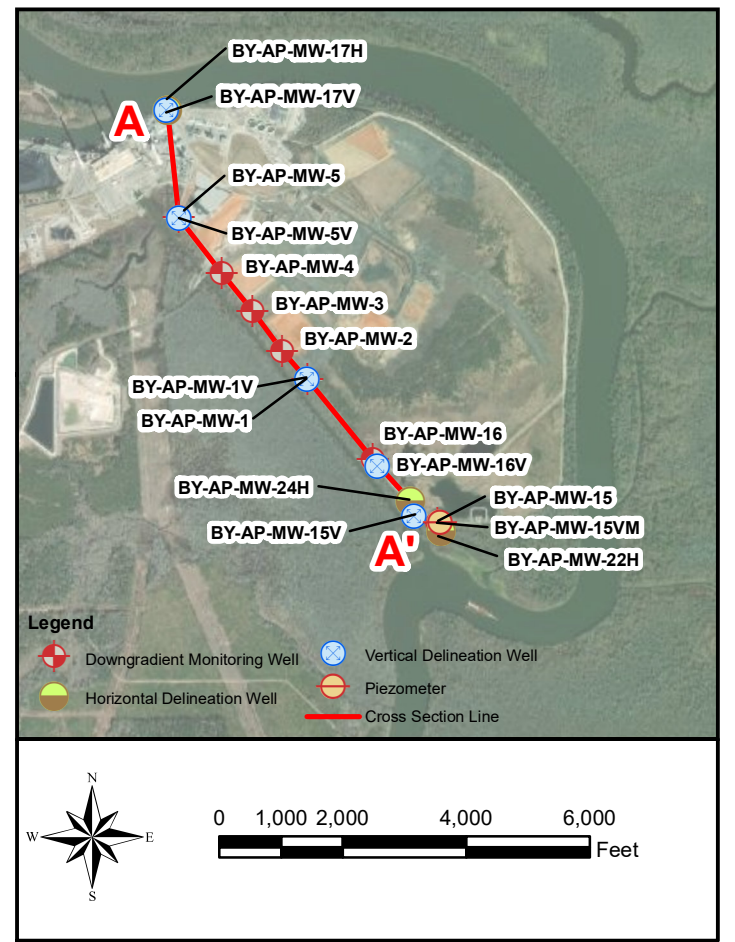
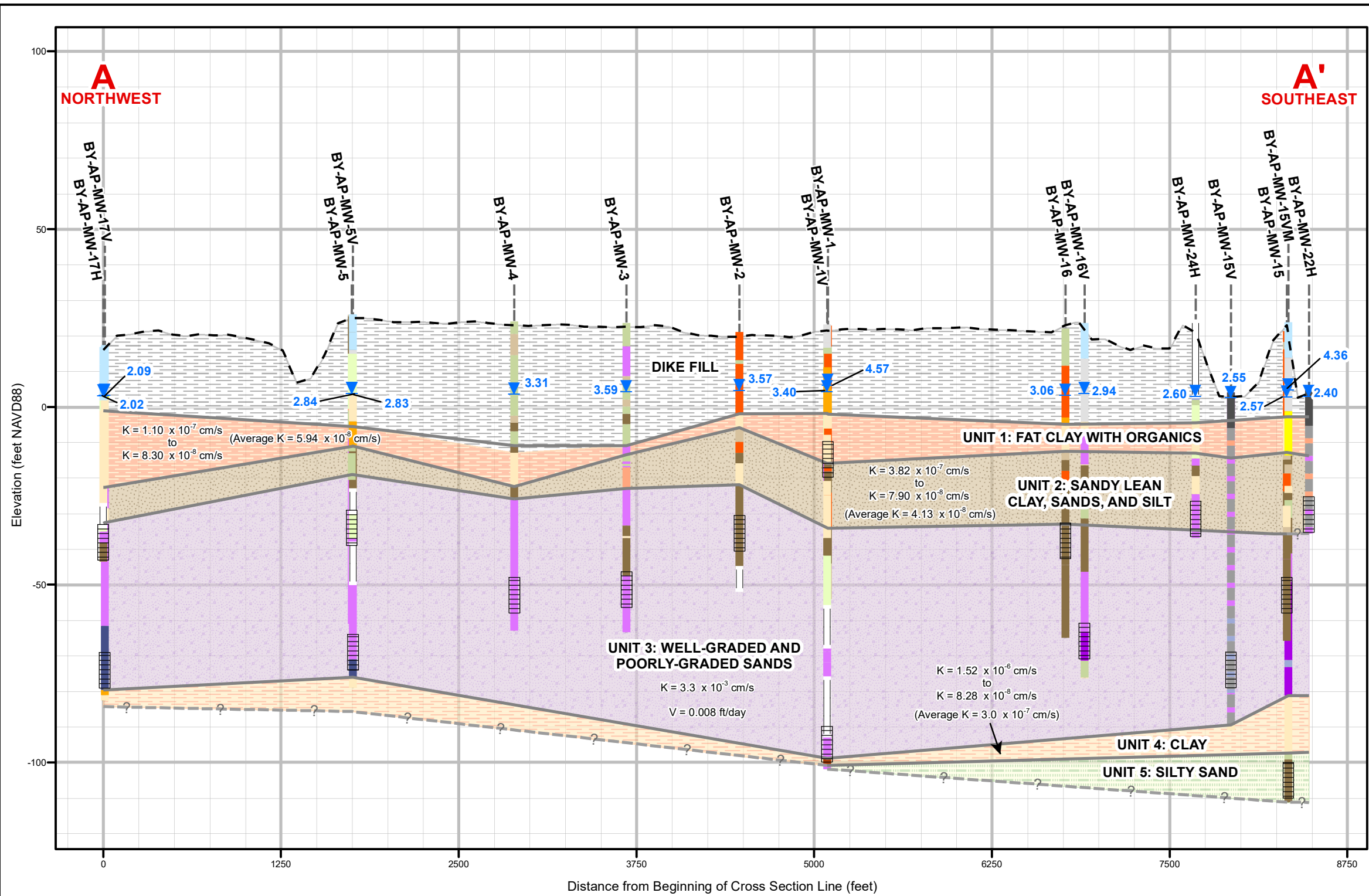


SCALE	1:24000
DATE	10/16/2020
DRAWN BY	KWR
CHECKED BY	GBD

DRAWING TITLE
**SITE GEOLOGIC MAP
 PLANT BARRY ASH POND**

FIGURE NO
FIGURE 3



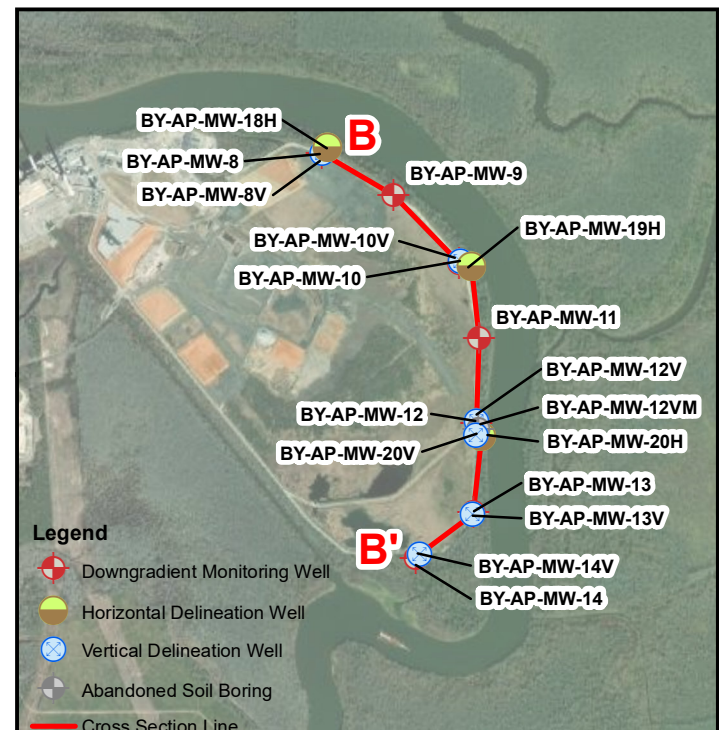
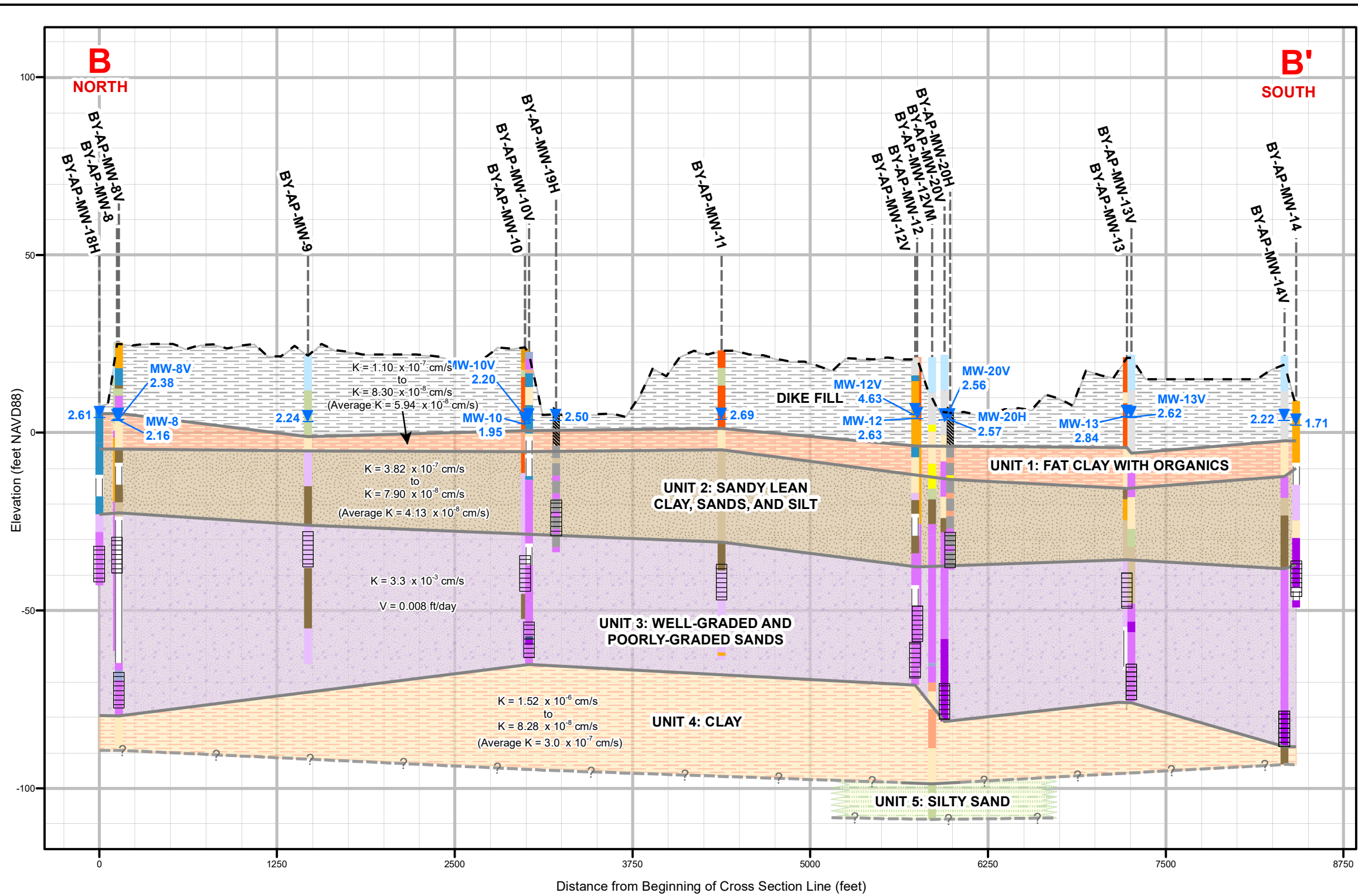


- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on May 23, 2022.
 4. K indicates hydraulic conductivity.
 5. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 6. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 7. V indicates groundwater flow velocity.
 8. NM indicates not measured.
 9. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit	
Groundwater Elevation	Hydroexcavation	Sandy Fat Clay	Well-graded and Poorly-graded Sands	Fill	Unit 1: Fat Clay with Organics
Well Location	Hand Auger	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 2: Sandy Lean Clay, Sands, and Silt	Unit 3: Well-graded and Poorly-graded Sands
Ground Surface Elevation	No Data	Gravelly Fat Clay	Well-graded and Poorly-graded Gravels	Unit 4: Clay	Unit 5: Silty Sand
Screen Interval	No Recovery	Silt	Well-graded Gravel with Sand and/or Silt		
Unit Boundary (inferred)	Organic Soil	Clayey Sand			
Unit Boundary	Fat Clay	Silty Sand			
	Lean Clay				

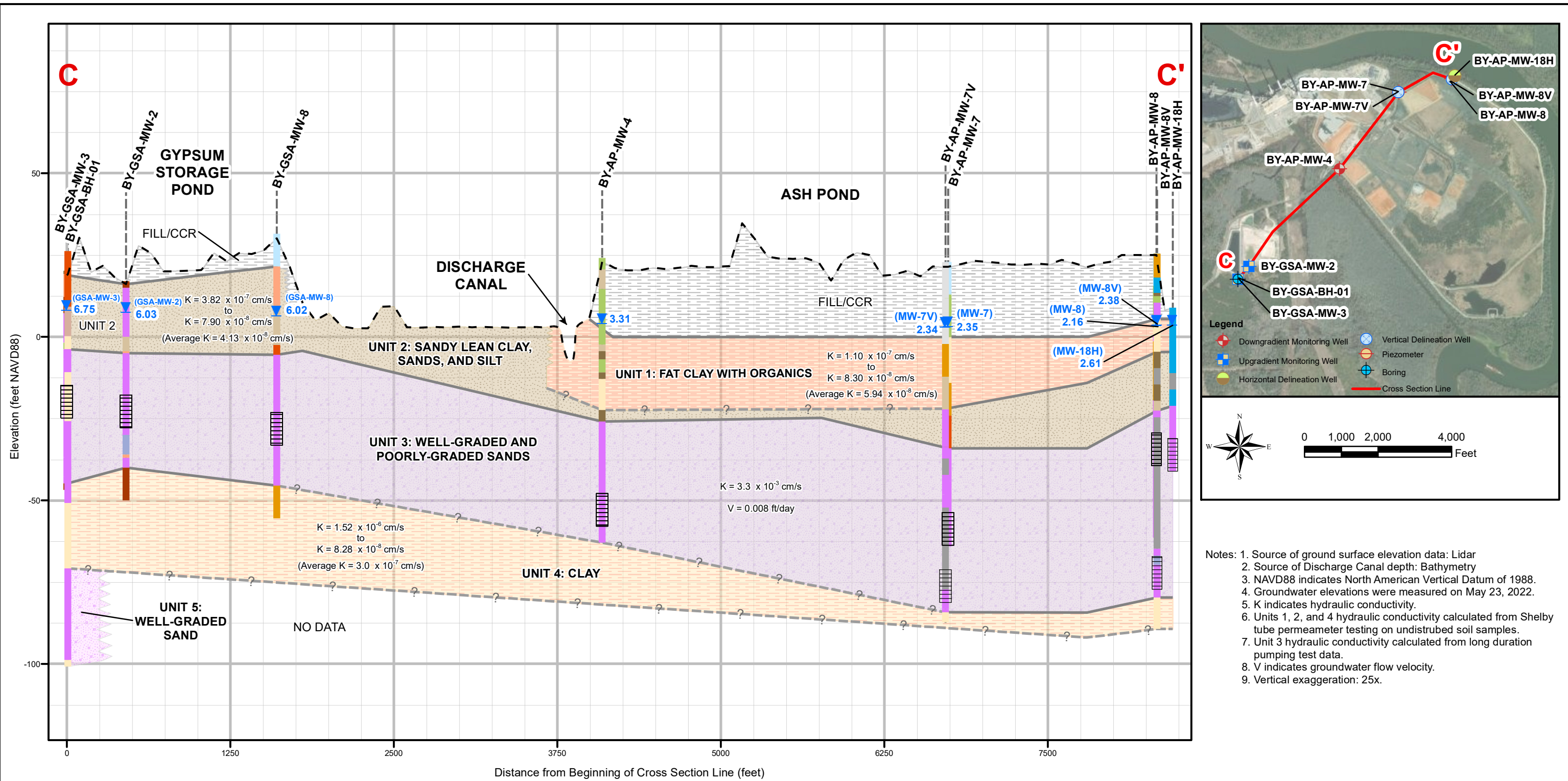
SCALE	As Shown	DRAWING TITLE
DATE	7/27/2022	
DRAWN BY	KAR	
CHECKED BY	GFB	FIGURE NO
		FIGURE 4A





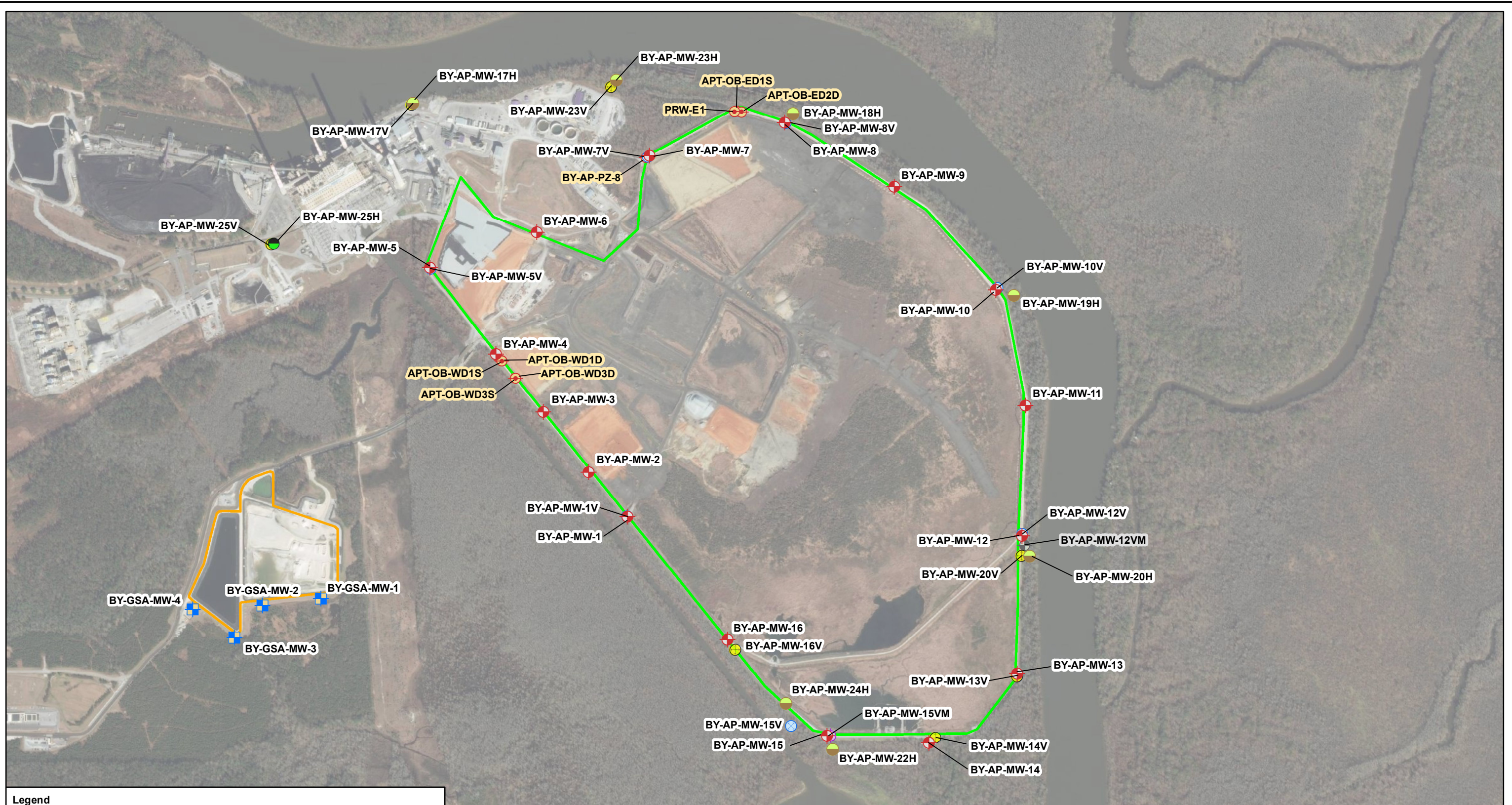
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on May 23, 2022.
 4. K indicates hydraulic conductivity.
 5. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 6. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 7. V indicates groundwater flow velocity.
 8. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit		SCALE	DRAWING TITLE
	Well Location		Hydroexcavation		Silty Clay	As Shown	GEOLOGIC CROSS SECTION B - B' PLANT BARRY ASH POND
	Ground Surface Elevation		Hand Auger		Sandy Fat Clay	DATE	
	Screen Interval		No Data		Sandy Lean Clay	7/27/2022	
	Unit Boundary (inferred)		No Recovery		Silt	DRAWN BY	FIGURE NO FIGURE 4B
	Unit Boundary		Fill		Sandy Silt	KAR	
	Groundwater Elevation		Fat Clay		Clayey Sandy	CHECKED BY	
			Lean Clay		Silty Sand	GFB	
			Well-graded and Poorly-graded Sand with Silt		Well-graded Gravelly Sand		
			Well-graded and Poorly-graded Sand with Silt		Well-graded and Poorly-graded Gravels		
			Well-graded and Poorly-graded Sand with Silt		Well-graded Gravel with Sand and/or Silt		
			Fill		Unit 1: Fat Clay with Organics		
			Unit 2: Sandy Lean Clay, Sands, and Silt		Unit 3: Well-graded and Poorly-graded Sands		
			Unit 4: Clay		Unit 5: Silty Sand		



- Notes:
1. Source of ground surface elevation data: Lidar
 2. Source of Discharge Canal depth: Bathymetry
 3. NAVD88 indicates North American Vertical Datum of 1988.
 4. Groundwater elevations were measured on May 23, 2022.
 5. K indicates hydraulic conductivity.
 6. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 7. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 8. V indicates groundwater flow velocity.
 9. Vertical exaggeration: 25x.

Legend 		SCALE As Shown DATE 7/27/2022 DRAWN BY KAR CHECKED BY GFB	DRAWING TITLE GEOLOGIC CROSS SECTION C - C' PLANT BARRY ASH POND FIGURE NO FIGURE 4C	
-------------------	--	--	---	--



Legend	
	Downgradient Monitoring Well
	Upgradient Monitoring Well
	Phase I Horizontal Delineation Monitoring Well
	Phase I Vertical Delineation Monitoring Well
	Phase II Horizontal Delineation Monitoring Well
	Phase II Vertical Delineation Monitoring Well
	Phase II Piezometer (Miocene Series)
	Abandoned Soil Boring
	Groundwater Field Parameters Instrumentation Observation Well Locations
	Ash Pond Boundary
	Gypsum Pond Boundary

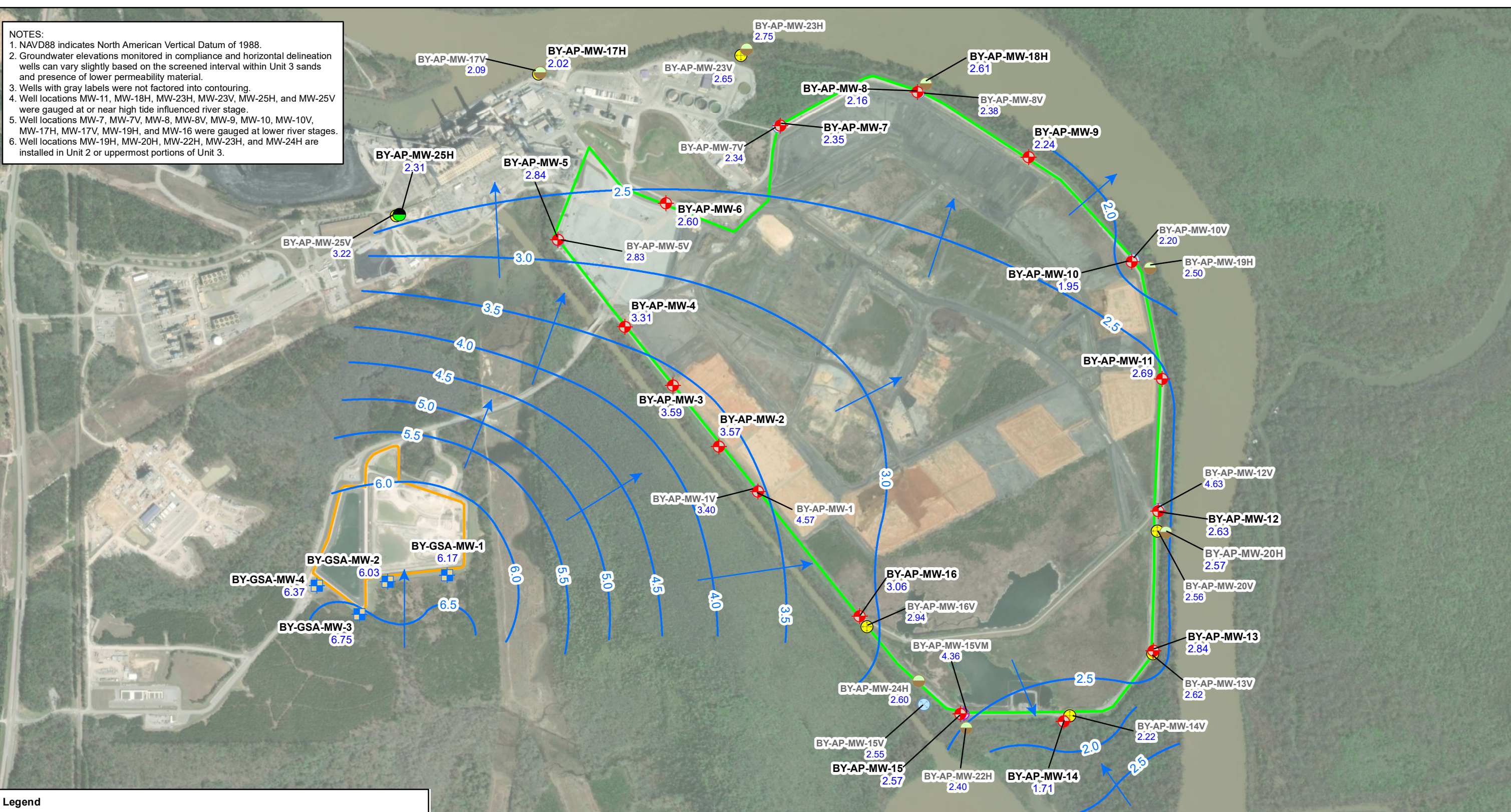


SCALE	1:12000
DATE	7/26/2022
DRAWN BY	KAR
CHECKED BY	GFB

DRAWING TITLE	
MONITORING WELL LOCATION MAP PLANT BARRY ASH POND	
FIGURE NO	FIGURE 5

NOTES:

1. NAVD88 indicates North American Vertical Datum of 1988.
2. Groundwater elevations monitored in compliance and horizontal delineation wells can vary slightly based on the screened interval within Unit 3 sands and presence of lower permeability material.
3. Wells with gray labels were not factored into contouring.
4. Well locations MW-11, MW-18H, MW-23H, MW-23V, MW-25H, and MW-25V were gauged at or near high tide influenced river stage.
5. Well locations MW-7, MW-7V, MW-8, MW-8V, MW-9, MW-10, MW-10V, MW-17H, MW-17V, MW-19H, and MW-16 were gauged at lower river stages.
6. Well locations MW-19H, MW-20H, MW-22H, MW-23H, and MW-24H are installed in Unit 2 or uppermost portions of Unit 3.



Legend

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Phase I Horizontal Delineation Well
- Phase I Vertical Delineation Well
- Phase II Horizontal Delineation Well
- Phase II Vertical Delineation Well
- Phase II Piezometer (Miocene Series)

- Potentiometric Surface Contour (ft NAVD88)
- Approximate Groundwater Flow Direction
- Ash Pond Boundary
- Gypsum Pond Boundary

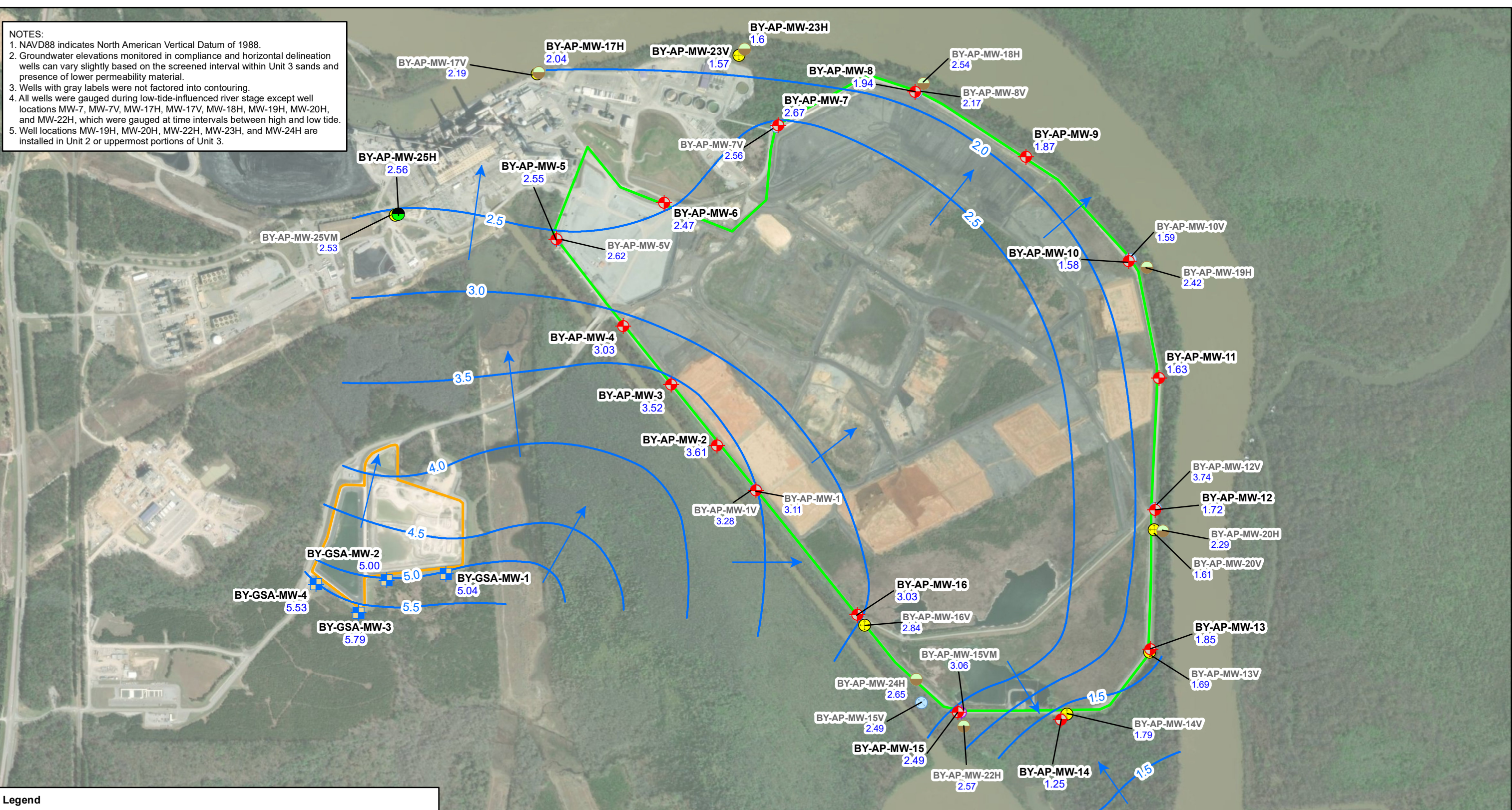
BY-AP-MW-1 Well ID
4.57 Groundwater Elevation (ft NAVD88)



SCALE	1:12000	DRAWING TITLE POTENTIOMETRIC SURFACE CONTOUR MAP MAY 23, 2022 PLANT BARRY ASH POND
DATE	11/10/2022	
DRAWN BY	KAR/KWR	FIGURE NO FIGURE 6A
CHECKED BY	GBD	

NOTES:

1. NAVD88 indicates North American Vertical Datum of 1988.
2. Groundwater elevations monitored in compliance and horizontal delineation wells can vary slightly based on the screened interval within Unit 3 sands and presence of lower permeability material.
3. Wells with gray labels were not factored into contouring.
4. All wells were gauged during low-tide-influenced river stage except well locations MW-7, MW-7V, MW-17H, MW-17V, MW-18H, MW-19H, MW-20H, and MW-22H, which were gauged at time intervals between high and low tide.
5. Well locations MW-19H, MW-20H, MW-22H, MW-23H, and MW-24H are installed in Unit 2 or uppermost portions of Unit 3.

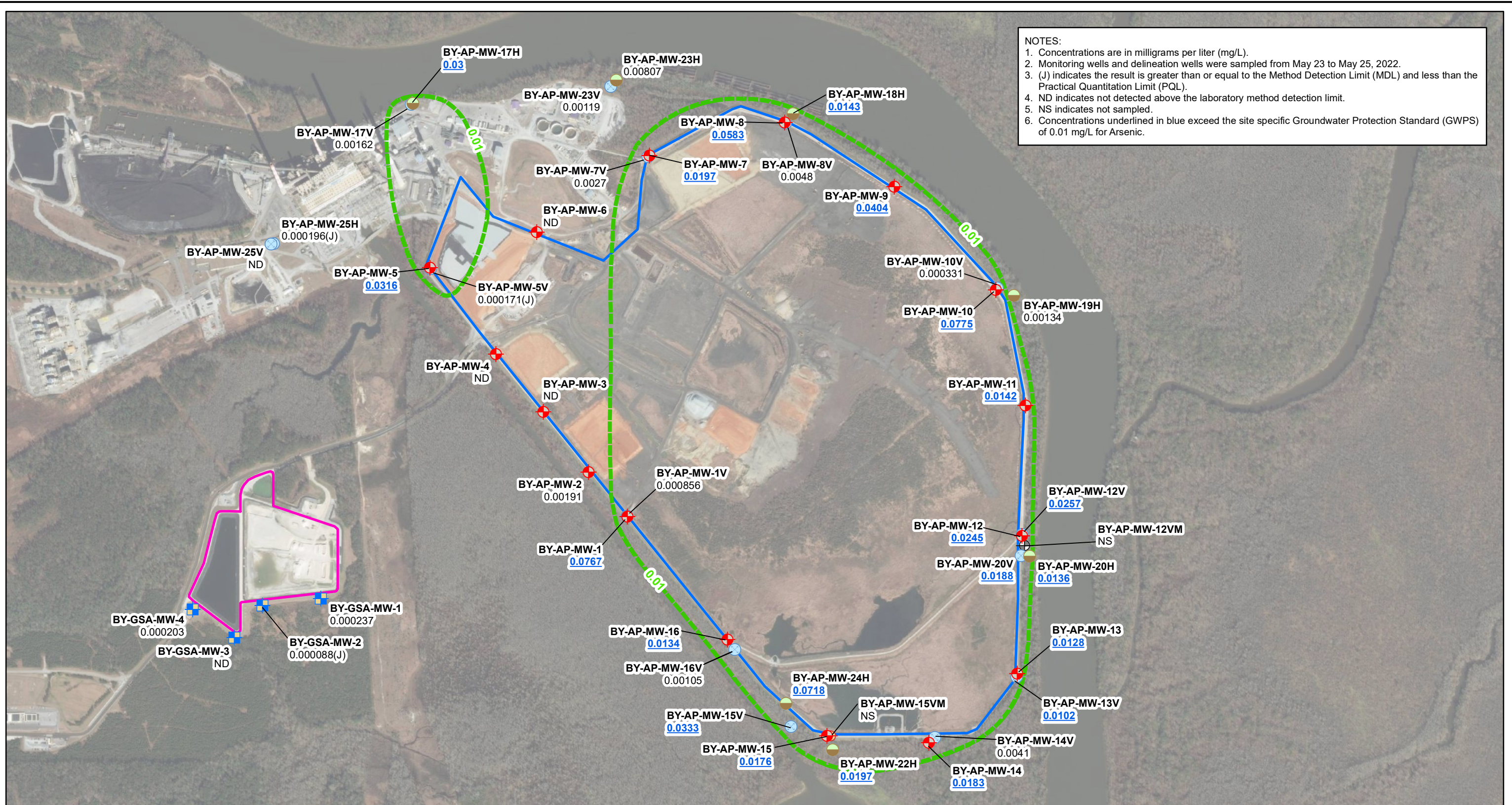


- Legend**
- Downgradient Monitoring Well
 - Upgradient Monitoring Well
 - Phase I Horizontal Delineation Well
 - Phase I Vertical Delineation Well
 - Phase II Horizontal Delineation Well
 - Phase II Vertical Delineation Well
 - Phase II Piezometer (Miocene Series)
 - Potentiometric Surface Contour (ft NAVD88)
 - Approximate Groundwater Flow Direction
 - Ash Pond Boundary
 - Gypsum Pond Boundary



SCALE	1:12000
DATE	1/15/2023
DRAWN BY	KAR/KWR
CHECKED BY	GFB

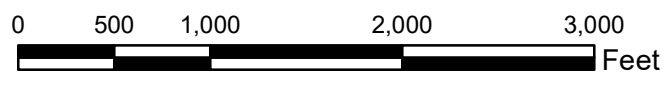
DRAWING TITLE	
POTENTIOMETRIC SURFACE CONTOUR MAP OCTOBER 31, 2022 PLANT BARRY ASH POND	
FIGURE NO	FIGURE 6B
Southern Company	



NOTES:
 1. Concentrations are in milligrams per liter (mg/L).
 2. Monitoring wells and delineation wells were sampled from May 23 to May 25, 2022.
 3. (J) indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).
 4. ND indicates not detected above the laboratory method detection limit.
 5. NS indicates not sampled.
 6. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.01 mg/L for Arsenic.

Legend

- Arsenic GWPS (mg/L)
- Ash Pond Boundary
- Gypsum Pond Boundary
- ⊕ Downgradient Monitoring Well
- ⊕ Upgradient Monitoring Well
- Horizontal Delineation
- ⊕ Vertical Delineation Well
- Piezometer
- ⊕ Abandoned Soil Boring



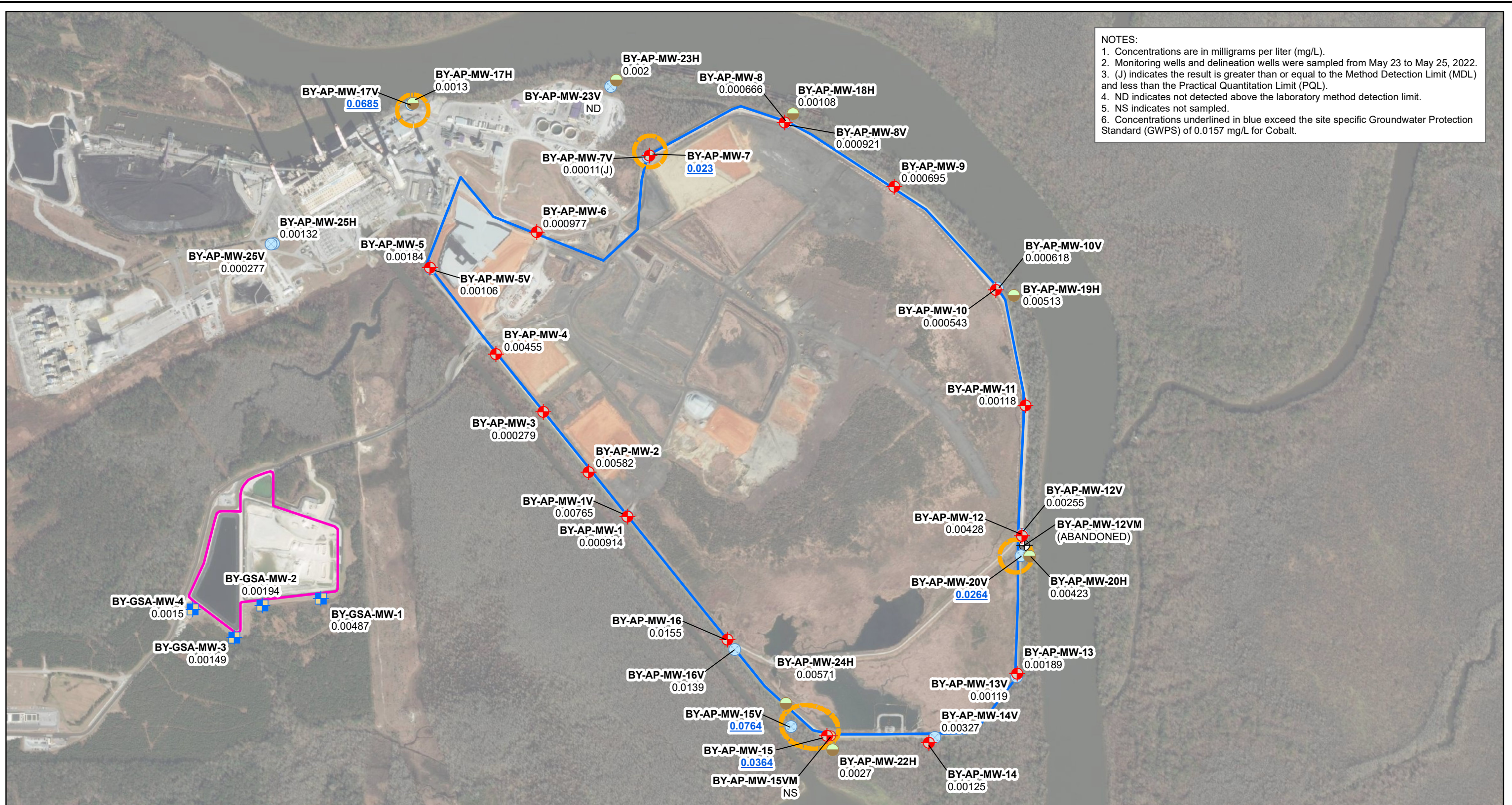
SCALE	1:12000
DATE	7/14/2022
DRAWN BY	KAR
CHECKED BY	GFB

DRAWING TITLE

ARSENIC ISOCONCENTRATION MAP PLANT BARRY ASH POND

FIGURE NO

FIGURE 7A



NOTES:
 1. Concentrations are in milligrams per liter (mg/L).
 2. Monitoring wells and delineation wells were sampled from May 23 to May 25, 2022.
 3. (J) indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).
 4. ND indicates not detected above the laboratory method detection limit.
 5. NS indicates not sampled.
 6. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.0157 mg/L for Cobalt.

Legend

- Cobalt GWPS (mg/L)
- Ash Pond Boundary
- Gypsum Pond Boundary
- ◆ Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation
- ⊗ Vertical Delineation Well
- Piezometer
- ⊕ Abandoned Soil Boring

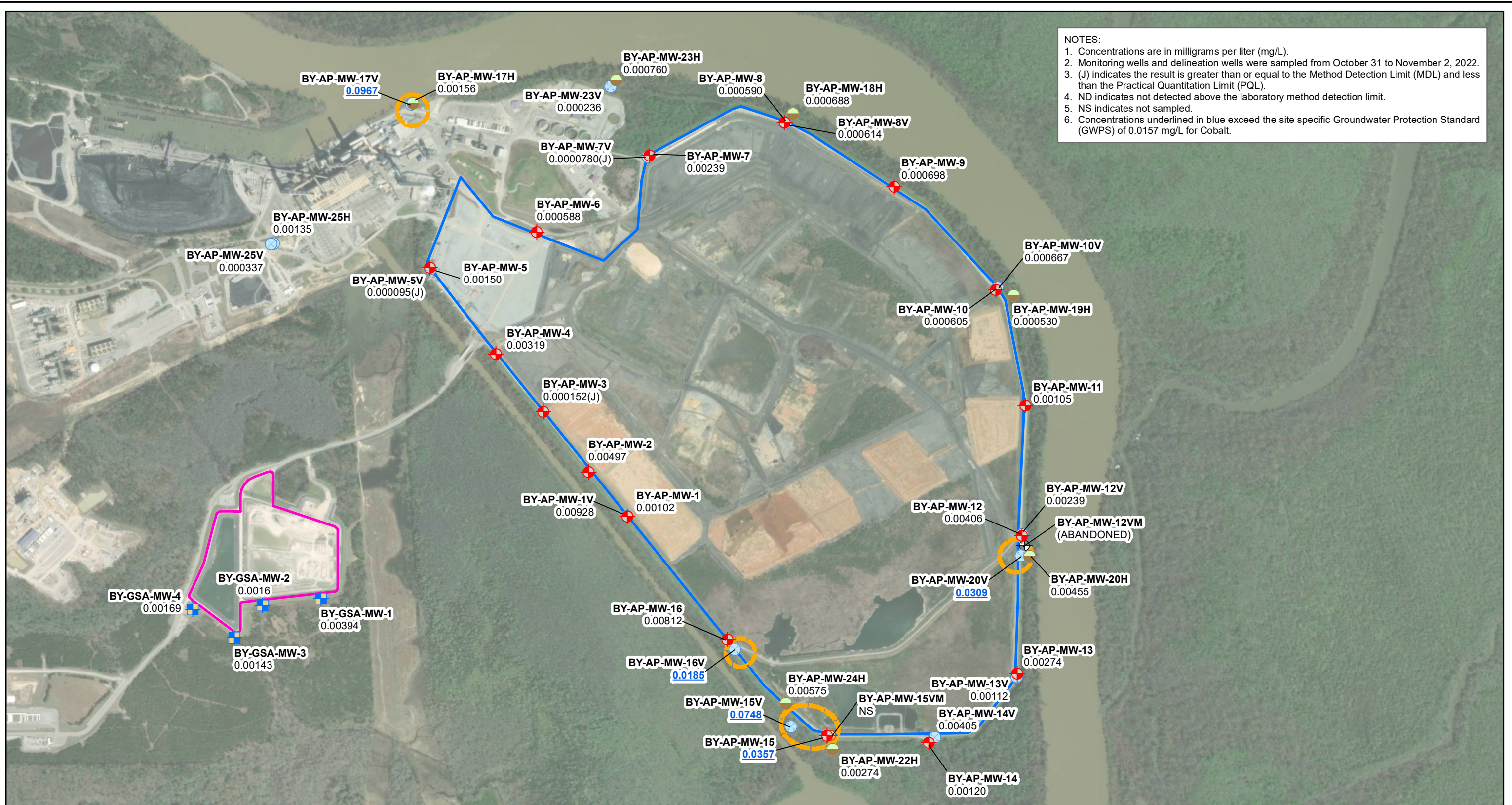
N

0 500 1,000 2,000 3,000 Feet

SCALE 1:12000
 DATE 7/14/2022
 DRAWN BY KAR
 CHECKED BY GFB

DRAWING TITLE
**COBALT ISOCONCENTRATION MAP
 PLANT BARRY ASH POND**

FIGURE NO
FIGURE 7B



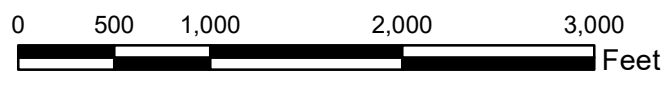
NOTES:

1. Concentrations are in milligrams per liter (mg/L).
2. Monitoring wells and delineation wells were sampled from October 31 to November 2, 2022.
3. (J) indicates the result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL).
4. ND indicates not detected above the laboratory method detection limit.
5. NS indicates not sampled.
6. Concentrations underlined in blue exceed the site specific Groundwater Protection Standard (GWPS) of 0.0157 mg/L for Cobalt.

Legend

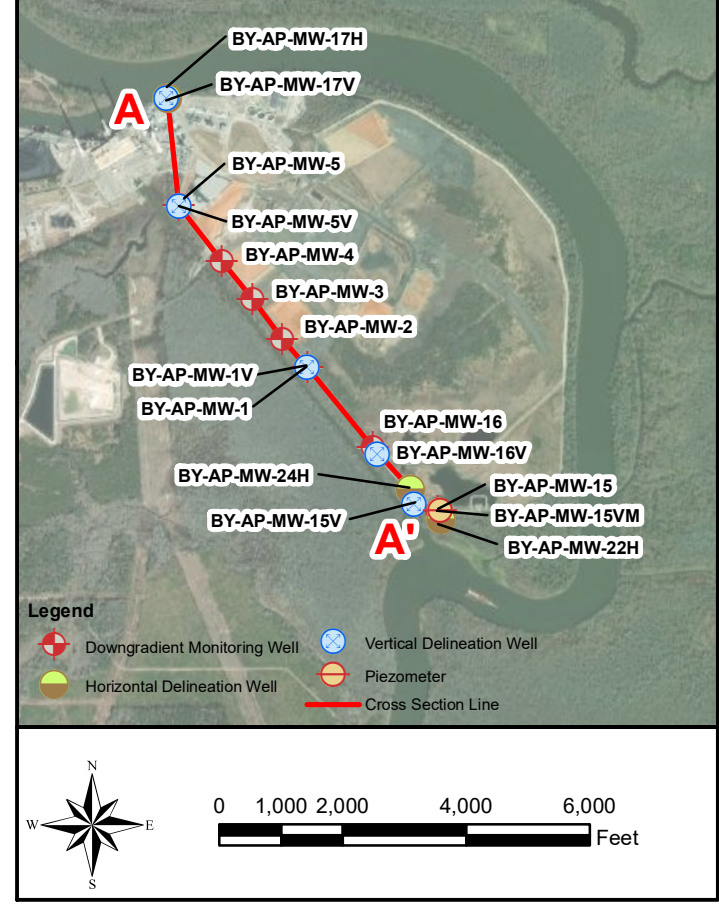
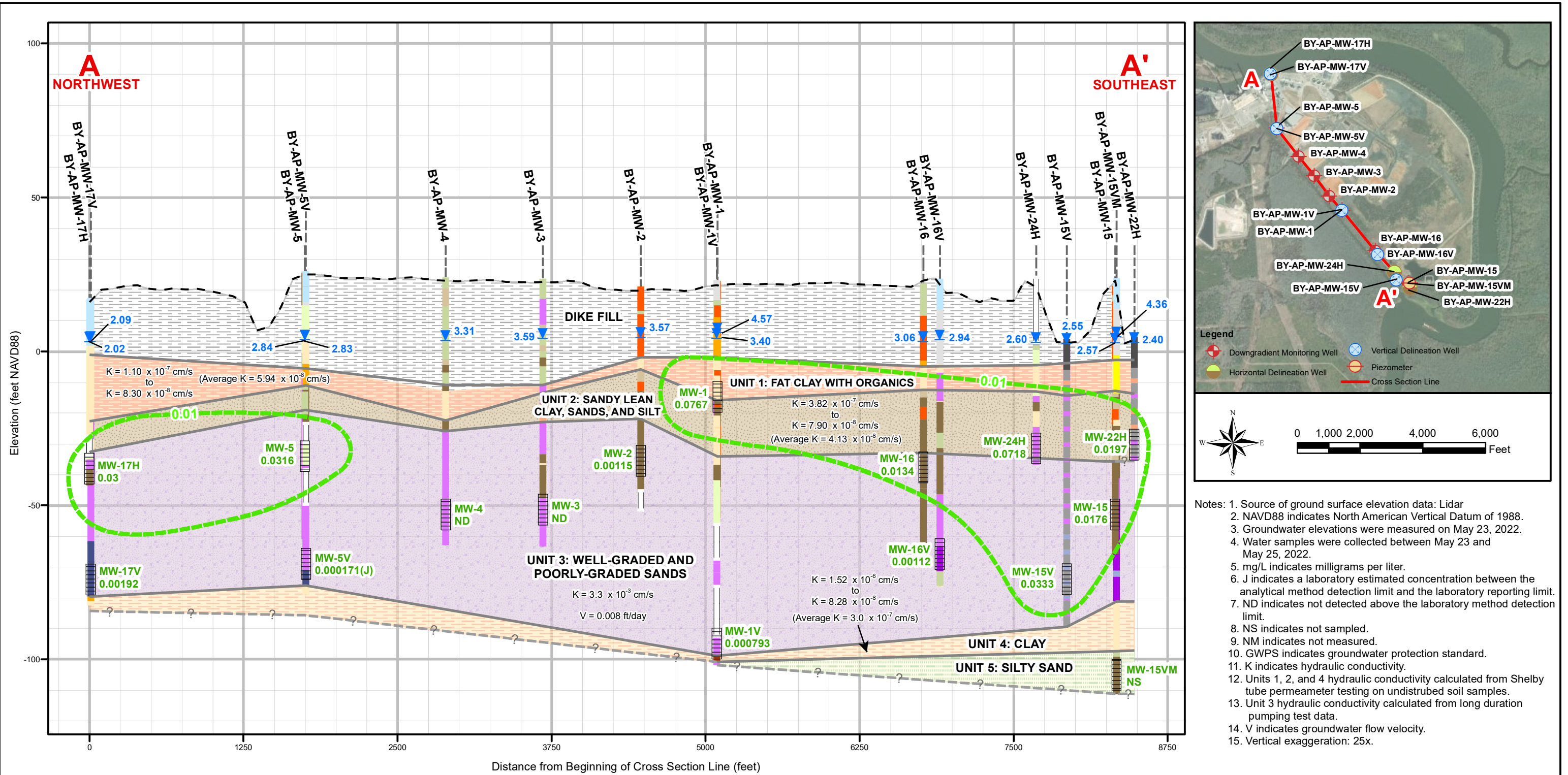
- Cobalt GWPS (mg/L)
- Ash Pond Boundary
- Gypsum Pond Boundary

- Downgradient Monitoring Well
- Upgradient Monitoring Well
- Horizontal Delineation
- Vertical Delineation Well
- Piezometer
- Abandoned Soil Boring



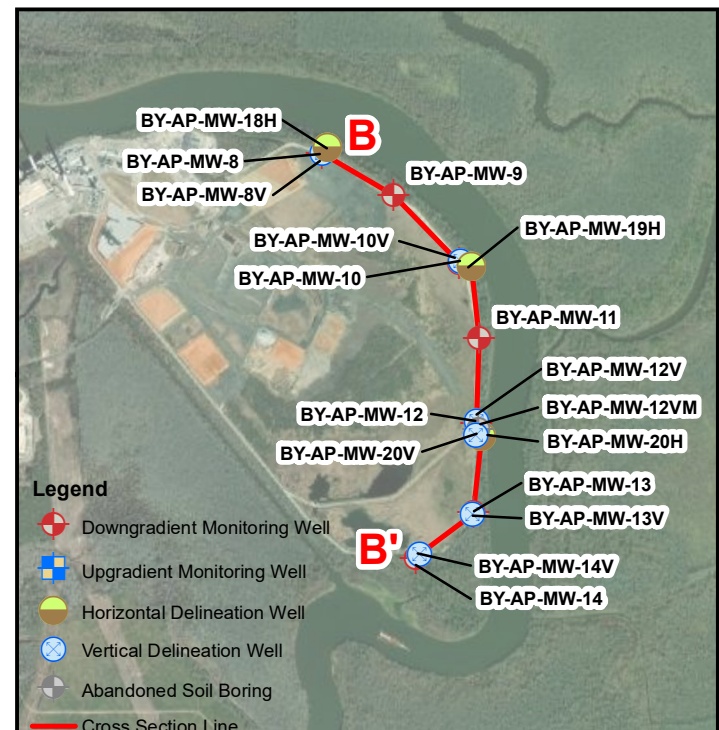
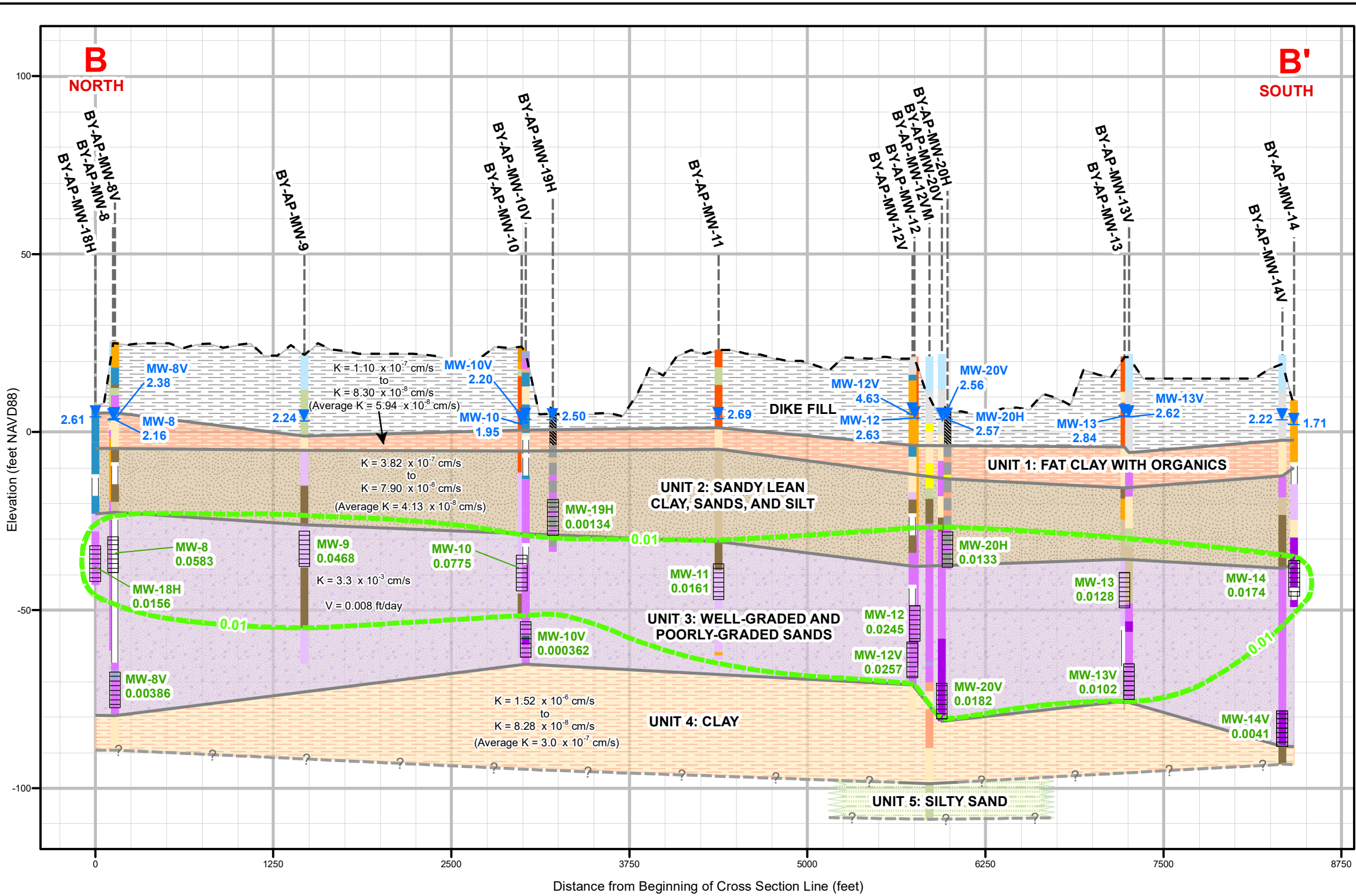
SCALE	1:12000
DATE	12/27/2022
DRAWN BY	KAR
CHECKED BY	GFB

DRAWING TITLE	
COBALT ISOCONCENTRATION MAP PLANT BARRY ASH POND	
FIGURE NO	FIGURE 7D
Southern Company	



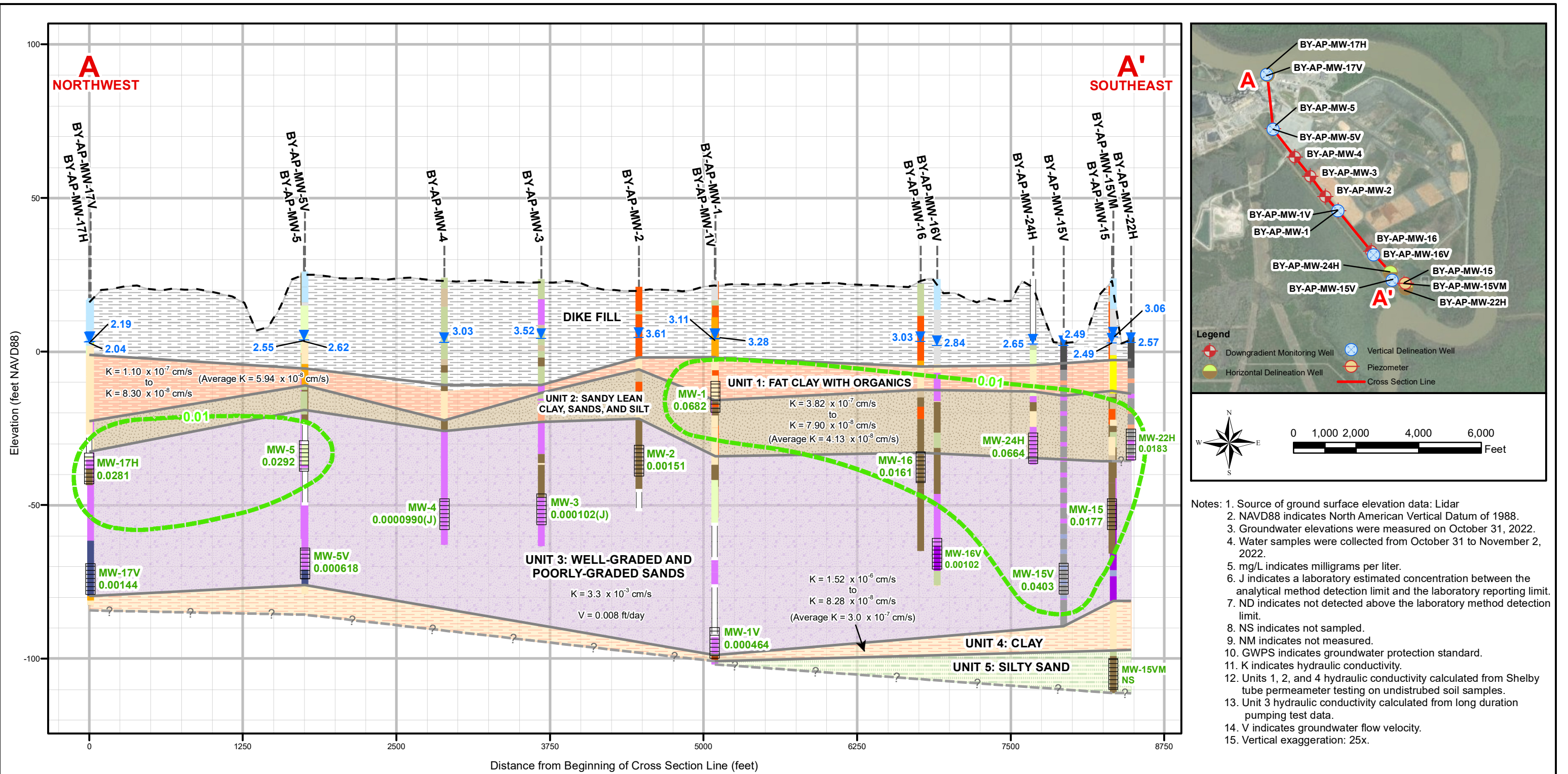
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on May 23, 2022.
 4. Water samples were collected between May 23 and May 25, 2022.
 5. mg/L indicates milligrams per liter.
 6. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 7. ND indicates not detected above the laboratory method detection limit.
 8. NS indicates not sampled.
 9. NM indicates not measured.
 10. GWPS indicates groundwater protection standard.
 11. K indicates hydraulic conductivity.
 12. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 13. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 14. V indicates groundwater flow velocity.
 15. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit		SCALE	DRAWING TITLE
Groundwater Elevation	Arsenic GWPS (mg/L)	Hydroexcavation	Sandy Fat Clay	Well-graded and Poorly-graded Sands	Unit 1: Fat Clay with Organics	As Shown	ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND
Well Location	Arsenic GWPS (mg/L)	Hand Auger	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 2: Sandy Lean Clay, Sands, and Silt	DATE 7/27/2022	
Ground Surface Elevation		No Data	Gravelly Fat Clay	Well-graded and Poorly-graded Gravels	Unit 3: Well-graded and Poorly-graded Sands	DRAWN BY KAR	
Screen Interval		No Recovery	Silt	Well-graded Gravel with Sand and/or Silt	Unit 4: Clay	CHECKED BY GFB	FIGURE NO FIGURE 8A
Unit Boundary (inferred)		Organic Soil	Sandy Silt		Unit 5: Silty Sand		
Unit Boundary		Fat Clay	Clayey Sand				
		Lean Clay	Silty Sand				



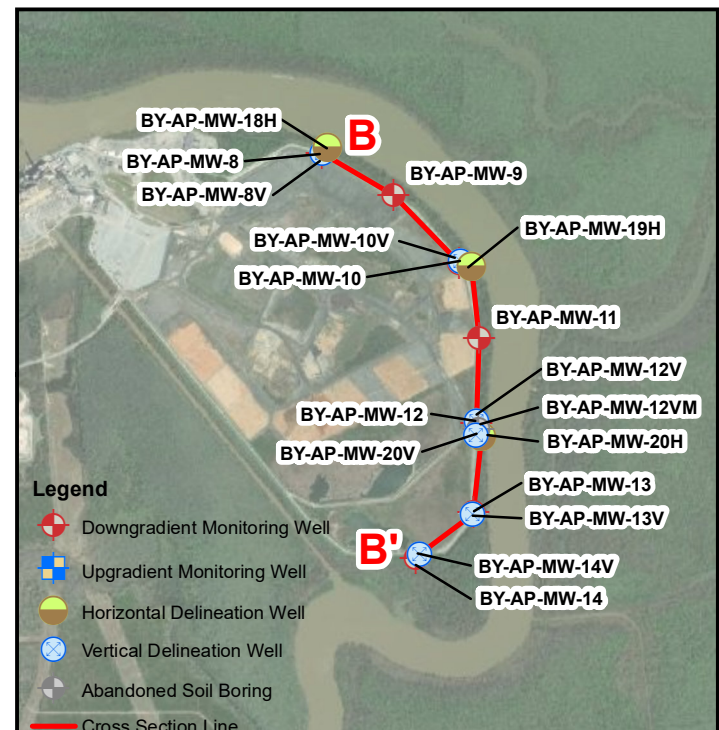
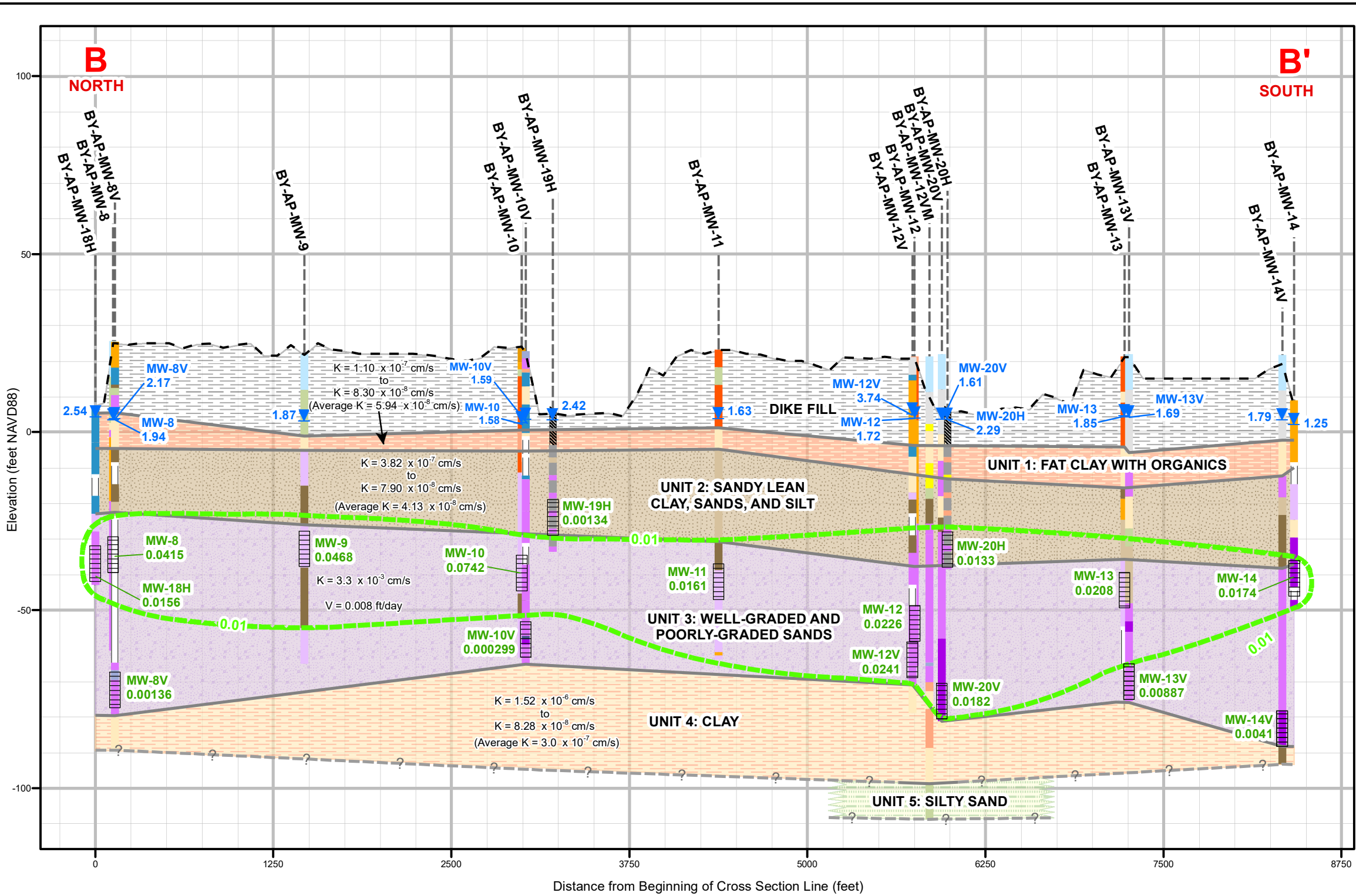
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on May 23, 2022.
 4. Water samples were collected between May 23 and May 25, 2022.
 5. mg/L indicates milligrams per liter.
 6. GWPS indicates groundwater protection standard.
 7. K indicates hydraulic conductivity.
 8. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 9. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 10. V indicates groundwater flow velocity.
 11. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit		SCALE	DRAWING TITLE
Groundwater Elevation	Arsenic GWPS (mg/L)	Hydroexcavation	Silty Clay	Fill	Unit 1: Fat Clay with Organics	As Shown	ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT BARRY ASH POND
Screen Interval	0.01 Arsenic GWPS (mg/L)	Hand Auger	Sandy Fat Clay	Well-graded and Poorly-graded Sand with Silt	Unit 2: Sandy Lean Clay, Sands, and Silt	DATE 7/27/2022	
Well Location		No Data	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 3: Well-graded and Poorly-graded Sands	DRAWN BY KAR	
Ground Surface Elevation		No Recovery	Silt	Well-graded and Poorly-graded Gravels	Unit 4: Clay	CHECKED BY GFB	
Unit Boundary (inferred)		Fill	Sandy Silt	Well-graded Gravel with Sand and/or Silt	Unit 5: Silty Sand	FIGURE NO FIGURE 8B	
Unit Boundary		Fat Clay	Clayey Sandy			Southern Company	
		Lean Clay	Silty Sand				
			Well-graded and Poorly-graded Sand with Silt				



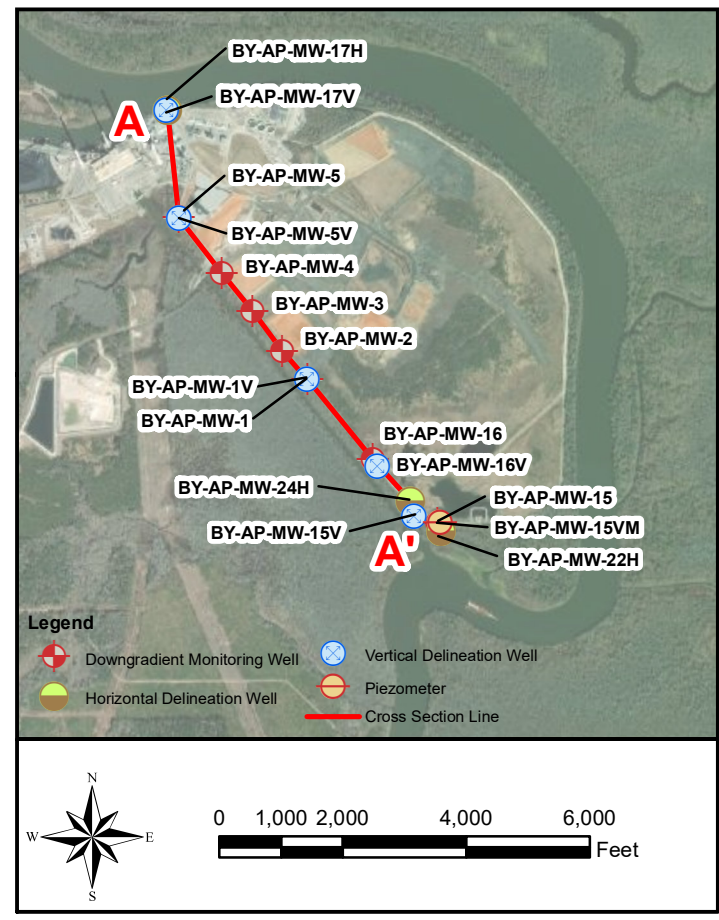
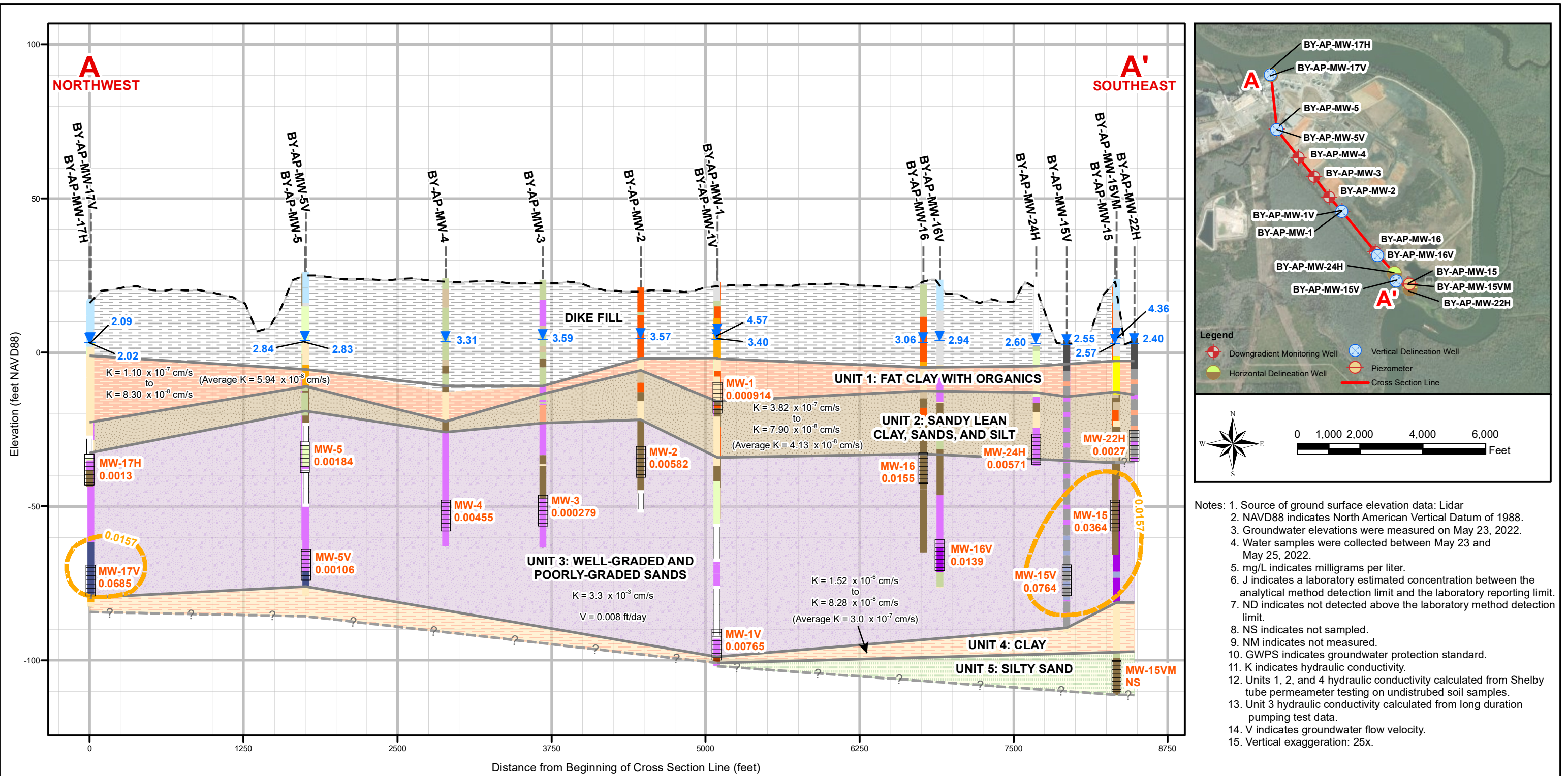
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on October 31, 2022.
 4. Water samples were collected from October 31 to November 2, 2022.
 5. mg/L indicates milligrams per liter.
 6. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 7. ND indicates not detected above the laboratory method detection limit.
 8. NS indicates not sampled.
 9. NM indicates not measured.
 10. GWPS indicates groundwater protection standard.
 11. K indicates hydraulic conductivity.
 12. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 13. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 14. V indicates groundwater flow velocity.
 15. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit		SCALE	DRAWING TITLE
Groundwater Elevation	Arsenic GWPS (mg/L)	Hydroexcavation	Sandy Fat Clay	Well-graded and Poorly-graded Sands	Fill	As Shown	ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND
Well Location	0.01 Arsenic GWPS (mg/L)	Hand Auger	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 1: Fat Clay with Organics	DATE 12/27/2022	
Ground Surface Elevation		No Data	Gravelly Fat Clay	Well-graded and Poorly-graded Gravels	Unit 2: Sandy Lean Clay, Sands, and Silt	DRAWN BY KAR	
Screen Interval		No Recovery	Silt	Well-graded Gravel with Sand and/or Silt	Unit 3: Well-graded and Poorly-graded Sands	CHECKED BY GFB	FIGURE NO FIGURE 8C
Unit Boundary (inferred)		Fill	Sandy Silt	Unit 4: Clay	Unit 5: Silty Sand		Southern Company
Unit Boundary		Organic Soil	Clayey Sand				
		Fat Clay	Silty Sand				
		Lean Clay					



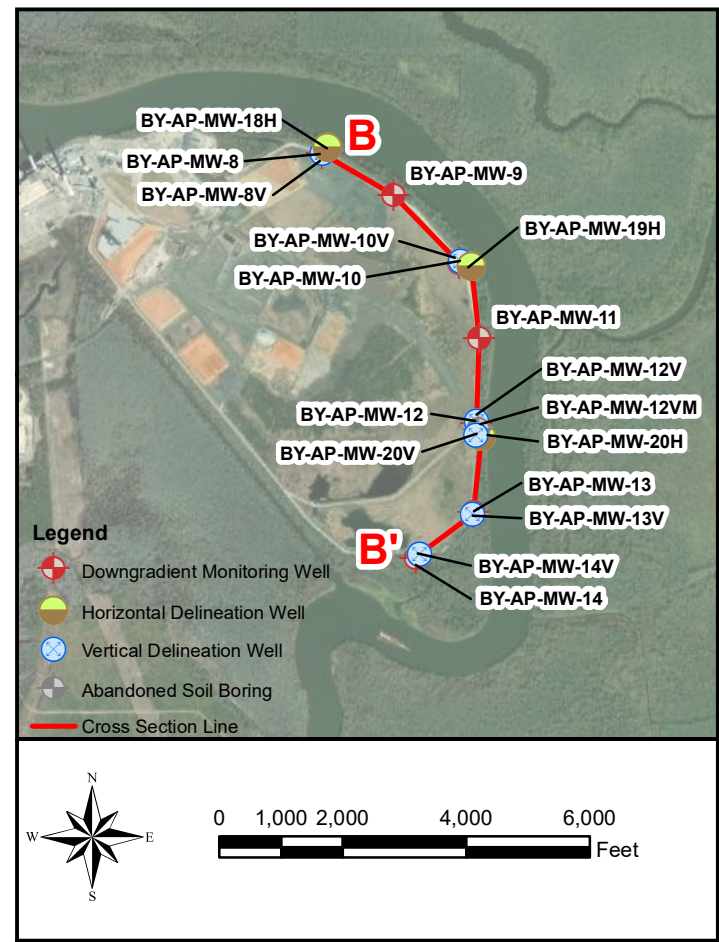
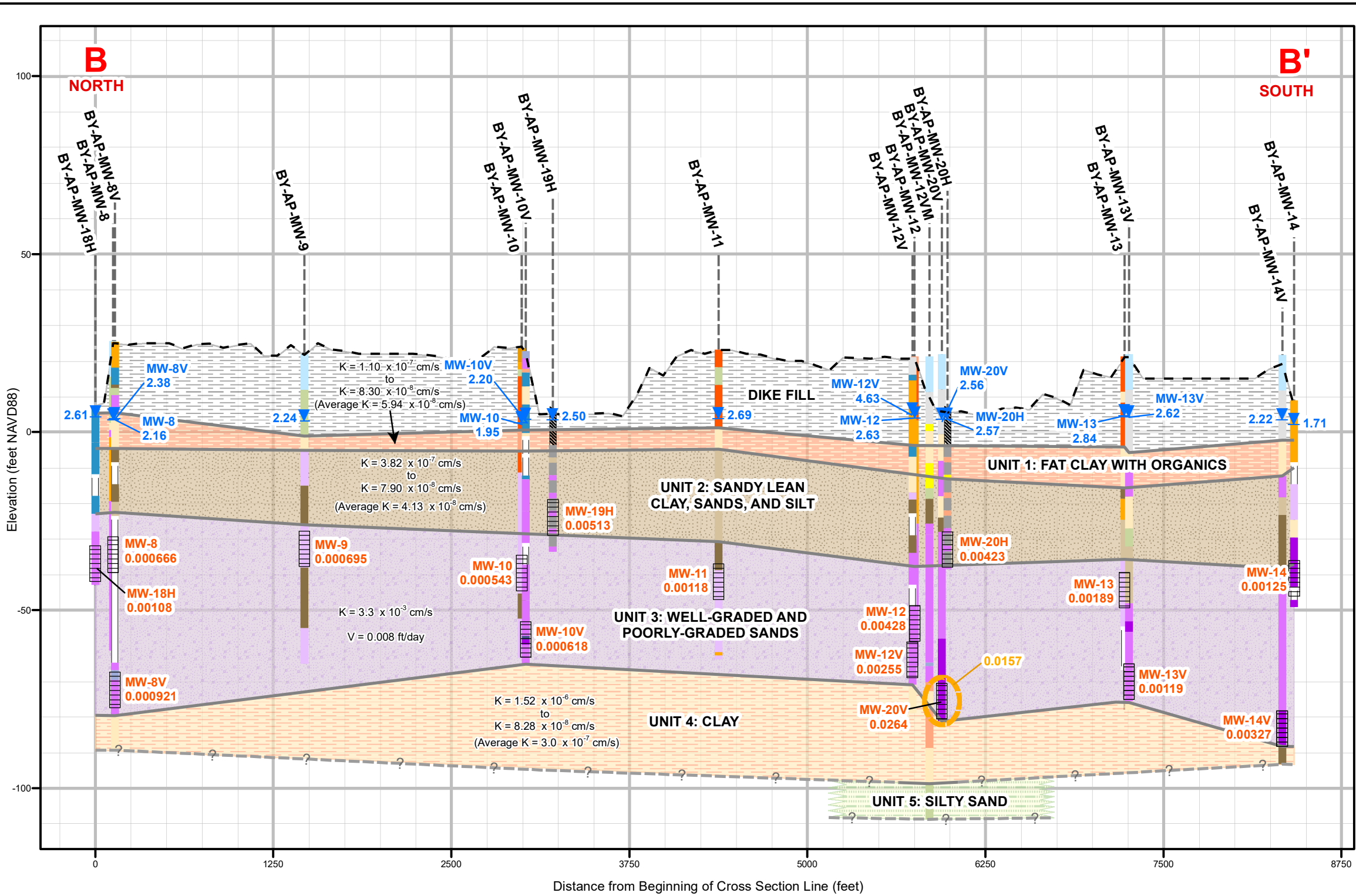
- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on October 31, 2022.
 4. Water samples were collected from October 31 to November 2, 2022.
 5. mg/L indicates milligrams per liter.
 6. GWPS indicates groundwater protection standard.
 7. K indicates hydraulic conductivity.
 8. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 9. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 10. V indicates groundwater flow velocity.
 11. Vertical exaggeration: 25x.

Legend Groundwater Elevation Ground Surface Elevation Screen Interval Well Location Unit Boundary (inferred) Unit Boundary	Arsenic GWPS (mg/L) 0.01 Arsenic GWPS (mg/L)	Borehole Description Silty Clay Sandy Fat Clay Sandy Lean Clay Silt Sandy Silt Clayey Sandy Silty Sand Well-graded and Poorly-graded Sand with Silt	Geologic Unit Fill Unit 1: Fat Clay with Organics Unit 2: Sandy Lean Clay, Sands, and Silt Unit 3: Well-graded and Poorly-graded Sands Unit 4: Clay Unit 5: Silty Sand	SCALE As Shown	DRAWING TITLE ARSENIC CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT BARRY ASH POND			
				Hydroexcavation Hand Auger No Data No Recovery Fill Fat Clay Lean Clay		Well-graded and Poorly-graded Sand with Silt Well-graded Gravelly Sand Well-graded and Poorly-graded Gravels Well-graded Gravel with Sand and/or Silt	DATE 1/9/2023	FIGURE NO FIGURE 8D
				Well Location Unit Boundary (inferred) Unit Boundary		DRAWN BY KAR	Southern Company	
				CHECKED BY GFB				



- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on May 23, 2022.
 4. Water samples were collected between May 23 and May 25, 2022.
 5. mg/L indicates milligrams per liter.
 6. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 7. ND indicates not detected above the laboratory method detection limit.
 8. NS indicates not sampled.
 9. NM indicates not measured.
 10. GWPS indicates groundwater protection standard.
 11. K indicates hydraulic conductivity.
 12. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 13. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 14. V indicates groundwater flow velocity.
 15. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit		SCALE	DRAWING TITLE
Groundwater Elevation	Cobalt GWPS (mg/L)	Hydroexcavation	Sandy Fat Clay	Well-graded and Poorly-graded Sands	Fill	As Shown	COBALT CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND
Well Location	Cobalt GWPS (mg/L)	Hand Auger	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 1: Fat Clay with Organics	DATE 7/26/2022	
Ground Surface Elevation		No Data	Gravelly Fat Clay	Well-graded and Poorly-graded Gravels	Unit 2: Sandy Lean Clay, Sands, and Silt	DRAWN BY KAR	
Screen Interval		No Recovery	Silt	Well-graded Gravel with Sand and/or Silt	Unit 3: Well-graded and Poorly-graded Sands	CHECKED BY GFB	FIGURE NO
Unit Boundary (inferred)		Organic Soil	Sandy Silt		Unit 4: Clay		FIGURE 9A
Unit Boundary		Fat Clay	Clayey Sand		Unit 5: Silty Sand		

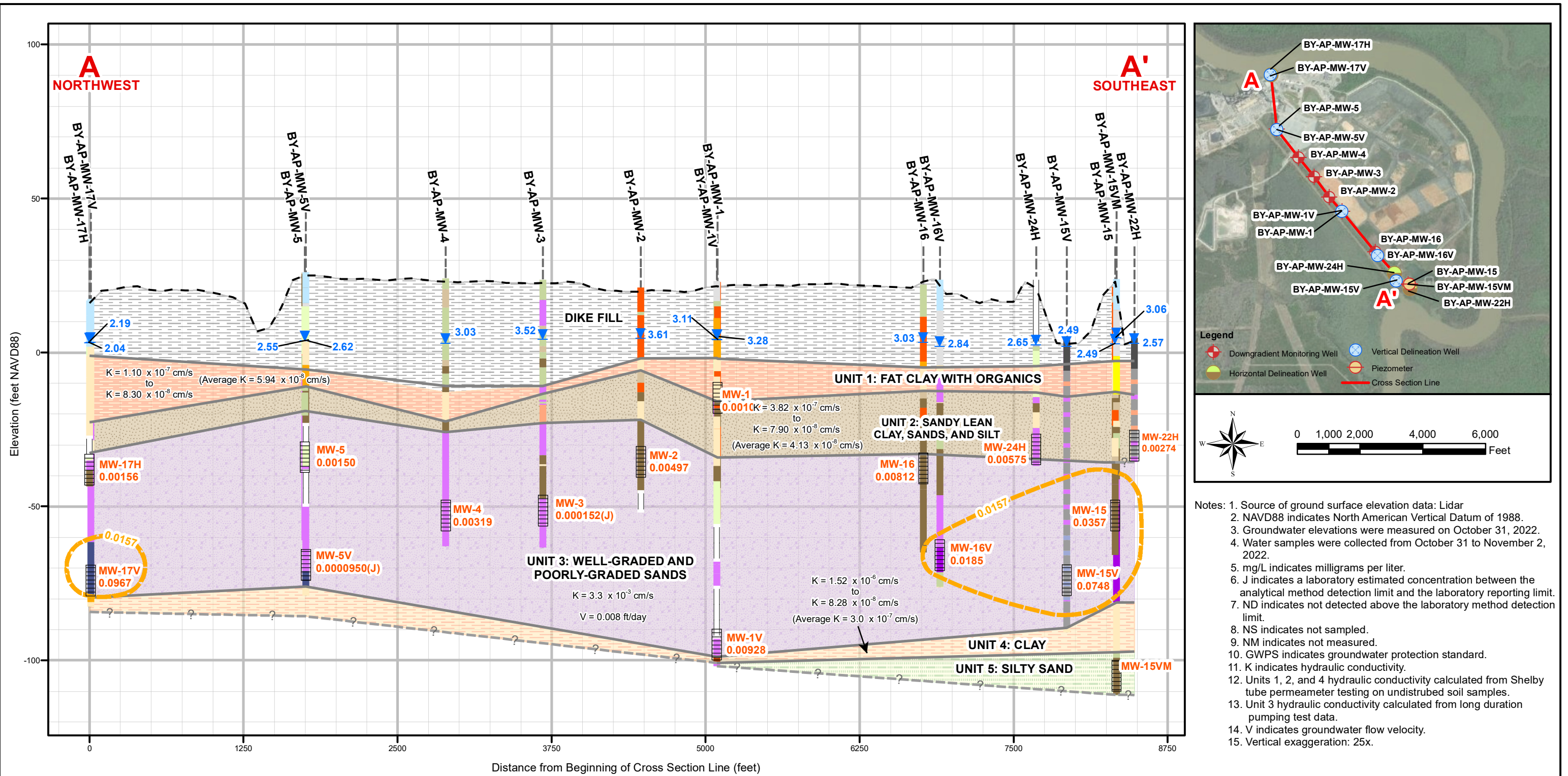


- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on May 23, 2022.
 4. Water samples were collected between May 23 and May 25, 2022.
 5. mg/L indicates milligrams per liter.
 6. GWPS indicates groundwater protection standard.
 7. K indicates hydraulic conductivity.
 8. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 9. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 10. V indicates groundwater flow velocity.
 11. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit	
Groundwater Elevation	Cobalt GWPS (mg/L)	Hydroexcavation	Silty Clay	Fill	Unit 1: Fat Clay with Organics
Well Location	0.0157 Cobalt GWPS (mg/L)	Hand Auger	Sandy Fat Clay	Well-graded and Poorly-graded Sand with Silt	Unit 2: Sandy Lean Clay, Sands, and Silt
Ground Surface Elevation		No Data	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 3: Well-graded and Poorly-graded Sands
Screen Interval		No Recovery	Silt	Well-graded and Poorly-graded Gravels	Unit 4: Clay
Unit Boundary (inferred)		Fill	Sandy Silt	Well-graded Gravel with Sand and/or Silt	Unit 5: Silty Sand
Unit Boundary		Fat Clay	Clayey Sandy		
		Lean Clay	Silty Sand		
			Well-graded and Poorly-graded Sand with Silt		

SCALE As Shown	DRAWING TITLE COBALT CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION B - B' PLANT BARRY ASH POND
DATE 7/27/2022	
DRAWN BY KAR	
CHECKED BY GFB	FIGURE NO FIGURE 9B





- Notes:
1. Source of ground surface elevation data: Lidar
 2. NAVD88 indicates North American Vertical Datum of 1988.
 3. Groundwater elevations were measured on October 31, 2022.
 4. Water samples were collected from October 31 to November 2, 2022.
 5. mg/L indicates milligrams per liter.
 6. J indicates a laboratory estimated concentration between the analytical method detection limit and the laboratory reporting limit.
 7. ND indicates not detected above the laboratory method detection limit.
 8. NS indicates not sampled.
 9. NM indicates not measured.
 10. GWPS indicates groundwater protection standard.
 11. K indicates hydraulic conductivity.
 12. Units 1, 2, and 4 hydraulic conductivity calculated from Shelby tube permeameter testing on undisturbed soil samples.
 13. Unit 3 hydraulic conductivity calculated from long duration pumping test data.
 14. V indicates groundwater flow velocity.
 15. Vertical exaggeration: 25x.

Legend		Borehole Description		Geologic Unit		SCALE	DRAWING TITLE
Groundwater Elevation	Cobalt GWPS (mg/L)	Hydroexcavation	Sandy Fat Clay	Well-graded and Poorly-graded Sands	Fill	As Shown	COBALT CONCENTRATIONS ALONG GEOLOGIC CROSS SECTION A - A' PLANT BARRY ASH POND
Ground Surface Elevation	Unit Boundary (inferred)	Hand Auger	Sandy Lean Clay	Well-graded Gravelly Sand	Unit 1: Fat Clay with Organics	DATE 1/3/2023	
Screen Interval	Unit Boundary	No Data	Gravelly Fat Clay	Well-graded and Poorly-graded Gravels	Unit 2: Sandy Lean Clay, Sands, and Silt	DRAWN BY KAR	
Well Location	Cobalt GWPS (mg/L)	No Recovery	Silt	Well-graded Gravel with Sand and/or Silt	Unit 3: Well-graded and Poorly-graded Sands	CHECKED BY GBD	FIGURE NO FIGURE 9C
		Organic Soil	Sandy Silt		Unit 4: Clay		Southern Company
		Fat Clay	Clayey Sand		Unit 5: Silty Sand		

Tables



**Table 1a. - Compliance Monitoring Well Network Details
Plant Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-UP-MW-1	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99445	-88.01134	17.49	20.66	44.4	-13.23	-23.23	10	10/7/2015
BY-UP-MW-2	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99425	-88.01331	17.00	19.95	47.6	-17.23	-27.23	10	10/7/2015
BY-UP-MW-3	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	30.9933	-88.01424	20.15	23.24	48.5	-14.89	-24.89	10	10/7/2015
BY-UP-MW-4	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99413	-88.01566	26.16	29.12	64.1	-24.54	-34.54	10	10/13/2015
BY-AP-MW-1	Downgradient	Unit 1-Unit 2 Transition	30.99687	-88.00104	22.91	25.80	46.1	-9.90	-19.90	10	10/7/2015
BY-AP-MW-2	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	30.99815	-88.00234	21.10	23.89	65.4	-31.11	-41.11	10	10/7/2015
BY-AP-MW-3	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99989	-88.00388	23.60	26.61	83.2	-46.18	-56.18	10	10/7/2015
BY-AP-MW-4	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	31.00156	-88.00548	24.05	26.97	84.9	-47.54	-57.54	10	10/7/2015
BY-AP-MW-5	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00405	-88.00772	25.97	28.93	69.0	-29.62	-39.62	10	10/7/2015
BY-AP-MW-6	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	31.0051	-88.00414	23.78	26.69	88.5	-51.42	-61.42	10	10/7/2015
BY-AP-MW-7	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	31.00734	-88.00035	25.78	25.47	89.5	-53.58	-63.58	10	10/7/2015
BY-AP-MW-8	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00832	-87.9958	25.44	25.11	64.8	-29.29	-39.29	10	10/7/2015
BY-AP-MW-9	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00647	-87.9921	21.91	24.39	62.7	-27.92	-37.92	10	10/7/2015

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1a. - Compliance Monitoring Well Network Details
Plant Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-10	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00349	-87.98866	24.21	24.07	68.7	-34.18	-44.18	10	10/7/2015
BY-AP-MW-11	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	31.00014	-87.98764	23.13	23.11	71.1	-37.60	-47.60	10	10/7/2015
BY-AP-MW-12	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99636	-87.98774	21.24	23.88	82.9	-48.65	-58.65	10	10/7/2015
BY-AP-MW-13	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	30.99237	-87.98788	21.29	24.22	73.5	-38.89	-48.89	10	10/7/2015
BY-AP-MW-14	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	30.99035	-87.99085	9.27	11.74	58.0	-35.88	-45.88	10	10/1/2013
BY-AP-MW-15	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99054	-87.99429	21.23	23.89	82.7	-48.39	-58.39	10	10/7/2015
BY-AP-MW-16	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	30.99332	-87.99764	22.05	25.01	67.7	-32.31	-42.31	10	10/7/2015

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details
Plant Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-1V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.99688	-88.00105	23.13	26.23	126.5	-89.87	-99.87	10	12/18/2018
BY-AP-MW-5V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00403	-88.00771	25.98	28.94	103.4	-64.02	-74.02	10	12/20/2018
BY-AP-MW-7V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00731	-88.0004	25.62	25.06	106.7	-71.27	-81.27	10	12/12/2018
BY-AP-MW-8V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.0083	-87.99577	25.54	25.18	103.0	-67.41	-77.41	10	12/14/2018
BY-AP-MW-10V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00355	-87.98861	22.76	25.39	89.0	-53.24	-63.24	10	12/16/2018
BY-AP-MW-12V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.99641	-87.98773	21.05	25.51	94.9	-58.95	-68.95	10	12/17/2018
BY-AP-MW-13V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.99228	-87.98791	21.89	24.65	100.8	-65.75	-75.75	10	4/9/2020
BY-AP-MW-14V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.9905	-87.99065	21.68	24.72	113.4	-78.18	-88.18	10	4/10/2020
BY-AP-MW-15V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.9908	-87.9955	4.05	7.03	86.3	-68.85	-78.85	10	7/23/2019

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details
Plant Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-16V	Vertical Delineation	Unit 3: Middle Sands (Watercourse Aq)	30.99302	-87.99739	23.61	23.65	95.2	-61.09	-71.09	10	4/11/2020
BY-AP-MW-17V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00879	-88.00838	17.41	20.40	100.2	-69.25	-79.25	10	4/11/2020
BY-AP-MW-20V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	30.99579	-87.98777	21.94	24.91	105.7	-70.33	-80.33	10	4/10/2020
BY-AP-MW-23V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00934	-88.00166	12.04	15.33	103.0	-77.14	-87.14	10	3/25/2020
BY-AP-MW-25V	Vertical Delineation	Unit 3: Lower Sands & Gravel (Watercourse Aq)	31.00473	-88.01308	20.90	23.81	112.9	-78.54	-88.54	10	4/14/2020
BY-AP-MW-17H	Horizontal Delineation	Unit 3: Upper Sands (Watercourse Aq)	31.00883	-88.00832	16.88	19.83	63.4	-33.12	-43.12	10	12/21/2018
BY-AP-MW-18H	Horizontal Delineation	Unit 3: Upper Sands (Watercourse Aq)	31.00856	-87.99552	7.08	10.30	52.6	-31.92	-41.92	10	7/18/2019
BY-AP-MW-19H	Horizontal Delineation	Unit 2: Mixed Sand and Clay	31.00332	-87.98806	6.39	9.40	38.4	-18.61	-28.61	10	7/18/2019
BY-AP-MW-20H	Horizontal Delineation	Unit 2: Mixed Sand and Clay	30.99577	-87.98749	6.51	9.40	47.4	-27.59	-37.59	10	7/18/2019
BY-AP-MW-22H	Horizontal Delineation	Unit 2: Mixed Sand and Clay	30.99014	-87.99409	4.73	7.85	43.1	-27.87	-37.87	10	7/24/2019
BY-AP-MW-23H	Horizontal Delineation	Unit 3: Upper Sands (Watercourse Aq)	31.00953	-88.00147	7.92	10.63	45.1	-24.08	-34.08	10	7/18/2019

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1b. - Delineation Well Network Details
Plant Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-24H	Horizontal Delineation	Unit 2: Mixed Sand and Clay	30.99147	-87.99567	23.51	26.28	63.2	-26.49	-36.49	10	12/19/2018
BY-AP-MW-25H	Horizontal Delineation	Unit 3: Middle Sands (Watercourse Aq)	31.00474	-88.01299	20.89	23.82	80.4	-46.09	-56.09	10	4/13/2020

Notes:

ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing

(1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.

(2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.

(3) Total well depth accounts for sump if data provided on well construction logs.



**Table 1c. - Piezometer Well Network Details
Plant Barry Ash Pond**

Well ID	Hydraulic Location	Geologic Unit	Latitude	Longitude	Ground Surface Elevation (ft NAVD)	Top Of Casing Elevation (ft NAVD)	Well Depth (ft BTOC)	Top Of Screen Elevation (ft NAVD)	Bottom Of Screen Elevation (ft NAVD)	Screen Length (ft)	Date Of Installation
WELL NETWORK											
BY-AP-MW-15VM	Piezometer	Unit 5: Sands (Interpreted Miocene)	30.99054	-87.99416	23.79	23.51	133.5	-99.52	-109.52	10	4/23/2020

Notes:
 ft = feet; ft NAVD = elevation in feet, referenced to North American Vertical Datum; ft BTOC = depth, referenced in feet below top of casing
 (1) Coordinates have been transformed into WGS84 from NAD 27/83, State Plane, Alabama, feet.
 (2) Vertical elevations are in feet relative to the North American Vertical Datum (NAVD)1988.
 (3) Total well depth accounts for sump if data provided on well construction logs.



Table 2. Parameters And Reporting Limits

Plant Barry Ash Pond
05/23/2022 - 11/10/2022

Appendix III Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Boron	EPA 200.7	0.1015	mg/L
Calcium	EPA 200.7	0.406-20.3	mg/L
Chloride	SM4500Cl E	1-40	mg/L
Fluoride	SM4500F G 2017	0.125	mg/L
pH_Field	Field Sampling	NA	SU
Sulfate	SM4500SO4 E 2011	2-16	mg/L
TDS	NA	NA	mg/L
Appendix IV Parameters			
Parameters	Analytical Methods	Reporting Limits	Units of Measure
Antimony	EPA 200.8	0.001015	mg/L
Arsenic	EPA 200.8	0.000203	mg/L
Barium	EPA 200.8	0.001015	mg/L
Beryllium	EPA 200.8	0.001015	mg/L
Cadmium	EPA 200.8	0.000203	mg/L
Chromium	EPA 200.8	0.001015	mg/L
Cobalt	EPA 200.8	0.000203	mg/L
Lead	EPA 200.8	0.000203	mg/L
Lithium	EPA 200.7	0.02	mg/L
Mercury	EPA 245.1	0.0005	mg/L
Molybdenum	EPA 200.8	0.000203	mg/L
Selenium	EPA 200.8	0.001015	mg/L
Thallium	EPA 200.8	0.000203	mg/L
Combined Radium 226 + 228	Total Radium Calculation	0.768-1.84	pCi/L

Notes:

1. Reporting Limit values can display range depending upon matrix interferences and dilution factors
2. pH is a field acquired parameter and does not have a laboratory method or reporting limit
3. Combined Radium 226 + 228 – product of radium-226 + radium-228; reporting limits presented are sum of radium 226, radium 228 reporting limits



**Table 3.
Recent Groundwater Elevations Summary**

Well Name	Top of Casing Elevation										
		5/28/2019	9/30/2019	3/30/2020	5/12/2020	6/15/2020	8/31/2020	5/24/2021	10/18/2021	5/23/2022	10/31/2022
BY-AP-MW-1	25.80	4.33	3.4	6.97	4.38	5.02	5.02	5.28	5.06	4.57	3.11
BY-AP-MW-2	23.89	3.55	2.74	6.53	3.55	3.81	3.84	3.96	3.63	3.57	3.61
BY-AP-MW-3	26.61	3.41	2.6	6.46	3.39	3.70	3.84	3.84	3.47	3.59	3.52
BY-AP-MW-4	26.97	3.14	2.33	6.21	3.06	3.39	3.60	3.57	3.15	3.31	3.03
BY-AP-MW-5	28.93	2.89	2.08	5.9	2.66	3.00	3.29	--	2.81	2.84	2.55
BY-AP-MW-6	26.69	2.66	1.91	6.1	2.51	2.85	3.30	3.04	2.64	2.60	2.47
BY-AP-MW-7	25.94	2.47	1.69	6.25	2.31	2.90	3.35	2.53	2.21	2.35	2.67
BY-AP-MW-8	28.45	2.17	1.32	5.89	1.53	2.41	3.21	2.35	4.96	2.16	1.94
BY-AP-MW-9	24.39	1.96	1.26	5.83	1.47	2.36	2.97	2.36	2.05	2.24	1.87
BY-AP-MW-10	26.89	2.12	1.34	4.96	1.58	2.46	3.11	2.17	1.89	1.95	1.58
BY-AP-MW-11	26.08	2.32	1.54	5.94	1.64	2.50	3.16	2.41	2.06	2.69	1.63
BY-AP-MW-12	23.88	1.97	1.26	6.02	1.52	2.31	2.95	2.48	2.13	2.63	1.72
BY-AP-MW-13	24.22	2.11	1.42	5.83	1.68	2.43	3.11	2.64	2.29	2.84	1.85
BY-AP-MW-14	11.74	1.6	0.89	5.04	0.97	1.77	1.96	1.89	1.56	1.71	1.25
BY-AP-MW-15	23.89	2.23	1.58	5.77	1.93	2.57	3.12	2.74	2.45	2.57	2.49
BY-AP-MW-16	25.01	2.82	2.2	6.08	2.35	3.83	3.45	3.22	2.92	3.06	3.03
BY-AP-MW-1V	26.23	--	2.65	7.34	3.69	3.61	3.72	3.72	3.43	3.40	3.28
BY-AP-MW-5V	28.94	--	2.1	5.88	2.63	3.00	3.32	--	2.79	2.83	2.62
BY-AP-MW-7V	25.54	--	1.66	6.03	2.15	2.68	3.13	2.51	2.21	2.34	2.56
BY-AP-MW-8V	28.25	--	1.23	5.74	1.44	2.23	2.82	2.41	2.07	2.38	2.17
BY-AP-MW-10V	25.39	--	1.21	5.65	1.23	2.17	2.78	2.21	1.93	2.20	1.59
BY-AP-MW-12V	25.51	--	3.46	7.83	3.53	4.33	5.00	4.53	4.19	4.63	3.74
BY-AP-MW-13V	24.65	--	--	--	1.48	2.23	2.93	2.47	2.57	2.62	1.69
BY-AP-MW-14V	24.72	--	--	--	2.13	2.26	2.88	2.41	2.09	2.22	1.79
BY-AP-MW-15V	7.03	--	1.97	--	2.17	2.71	3.23	2.83	2.52	2.55	2.49
BY-AP-MW-15VM	23.51	--	--	--	4.15	3.95	3.90	3.98	3.45	4.36	3.06
BY-AP-MW-16V	23.65	--	--	--	2.97	3.15	3.47	3.26	2.94	2.94	2.84
BY-AP-MW-17H	19.83	--	1.51	5.88	1.47	2.36	2.93	2.37	2.14	2.02	2.04
BY-AP-MW-17V	20.40	--	--	--	1.51	2.11	3.01	2.44	2.20	2.09	2.19
BY-AP-MW-18H	10.30	--	1.34	5.88	1.87	2.03	3.00	2.40	2.05	2.61	2.54
BY-AP-MW-19H	9.40	--	1.42	5.85	2.02	2.07	3.04	2.45	2.14	2.50	2.42
BY-AP-MW-20H	9.40	--	1.55	5.79	1.55	2.31	2.97	2.51	2.13	2.57	2.29
BY-AP-MW-20V	24.91	--	--	--	1.4	2.19	2.87	2.39	2.04	2.56	1.61
BY-AP-MW-22H	7.85	--	1.85	--	2.17	2.75	3.09	2.80	2.46	2.40	2.57
BY-AP-MW-23H	10.63	--	1.67	5.98	1.55	2.48	3.07	2.44	2.14	2.75	1.60
BY-AP-MW-23V	15.33	--	--	--	1.5	2.09	2.98	2.34	2.15	2.65	1.57
BY-AP-MW-24H	26.28	--	1.86	5.82	1.4	2.74	3.16	2.92	2.60	2.60	2.65
BY-AP-MW-25H	23.82	--	--	--	3.49	3.53	3.37	3.63	3.29	2.31	2.56
BY-AP-MW-25V	23.81	--	--	--	3.22	3.42	3.38	3.58	3.19	3.22	2.53

Well Name	Top of Casing Elevation								
		5/28/2019	10/2/2019	3/30/2020	9/8/2020	5/24/2021	10/18/2021	5/23/2022	10/31/2022
BY-GSA-MW-1 ³	20.66	6.60	4.78	8.38	5.31	7.13	6.64	6.17	5.04
BY-GSA-MW-2 ³	19.95	6.32	4.71	8.05	5.16	6.80	6.4	6.03	5.00
BY-GSA-MW-3 ³	23.24	7.02	5.37	8.54	5.83	7.49	7.19	6.75	5.79
BY-GSA-MW-4 ³	29.12	6.57	5.16	8.20	5.53	6.99	6.68	6.37	5.53

Notes:

1. ft. AMSL - feet above mean sea level
2. -- Not Measured
3. BY-GSA-MW-1 - BY-GSA-MW-4 designated as upgradient Ash Pond well locations.



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Barry Ash Pond
05/24/2022 - 11/01/2022

BY-AP-MW-12				
Sample Date = 11/1/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	22.5	22.6	0.44%
Chloride	mg/L	24.9	24.9	0.00%
Sulfate	mg/L	15.3	18	16.22%
Arsenic	mg/L	0.0226	0.0225	0.44%
Barium	mg/L	0.079	0.0781	1.15%
Chromium	mg/L	0.00338	0.0033	2.40%
Cobalt	mg/L	0.00406	0.00396	2.49%
Molybdenum	mg/L	0.00094	0.00096	2.00%
BY-AP-MW-23H				
Sample Date = 11/1/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	23.9	24.4	2.07%
Chloride	mg/L	7.96	7.77	2.42%
Sulfate	mg/L	5.37	5.74	6.66%
Arsenic	mg/L	0.00463	0.00449	3.07%
Barium	mg/L	0.171	0.164	4.18%
Cobalt	mg/L	0.00076	0.00064	17.30%
BY-UP-MW-4				
Sample Date = 11/1/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	1.59	1.65	3.70%
Chloride	mg/L	3.3	3.31	0.30%
Sulfate	mg/L	4.59	4.7	2.37%
Barium	mg/L	0.11	0.116	5.31%
Chromium	mg/L	0.00111	0.00124	11.06%
Cobalt	mg/L	0.00169	0.00162	4.23%
BY-AP-MW-5				
Sample Date = 10/31/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	10.1	10.1	0.00%
Chloride	mg/L	17.5	17.5	0.00%
Sulfate	mg/L	15.2	13.8	9.66%
Arsenic	mg/L	0.0292	0.0293	0.34%
Barium	mg/L	0.105	0.102	2.90%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Barry Ash Pond
05/24/2022 - 11/01/2022

BY-AP-MW-5				
Sample Date = 10/31/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Cobalt	mg/L	0.0015	0.00144	4.08%
Molybdenum	mg/L	0.00034	0.0003	13.33%
BY-AP-MW-7				
Sample Date = 10/31/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Boron	mg/L	0.28	0.275	1.80%
Calcium	mg/L	2.36	2.35	0.43%
Chloride	mg/L	95.7	96	0.31%
Fluoride	mg/L	0.381	0.376	1.32%
Sulfate	mg/L	33.8	33.8	0.00%
Arsenic	mg/L	0.00873	0.00919	5.13%
Barium	mg/L	0.0188	0.0188	0.00%
Cobalt	mg/L	0.00239	0.00246	2.89%
Molybdenum	mg/L	0.00289	0.00298	3.07%
BY-UP-MW-3				
Sample Date = 5/31/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	1.95	1.97	1.02%
Chloride	mg/L	3.39	3.41	0.59%
Sulfate	mg/L	7.02	7.18	2.25%
Barium	mg/L	0.0992	0.101	1.80%
Chromium	mg/L	0.00139	0.00134	3.66%
Cobalt	mg/L	0.00149	0.00152	1.99%
BY-AP-MW-15				
Sample Date = 5/25/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	6.41	6.35	0.94%
Chloride	mg/L	80.7	79.7	1.25%
Fluoride	mg/L	0.214	0.168	24.08%
Arsenic	mg/L	0.0176	0.0163	7.67%
Barium	mg/L	0.0846	0.0806	4.84%
Cobalt	mg/L	0.0364	0.0358	1.66%
Molybdenum	mg/L	0.0018	0.00157	13.65%



Table 4a. Relative Percent Difference (RPD) Calculations

Plant Barry Ash Pond
05/24/2022 - 11/01/2022

BY-AP-MW-13				
Sample Date = 5/24/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	19.2	19	1.05%
Chloride	mg/L	43.5	38.2	12.97%
Sulfate	mg/L	38.3	51	28.44%
Arsenic	mg/L	0.0128	0.0131	2.32%
Barium	mg/L	0.0723	0.0721	0.28%
Chromium	mg/L	0.00685	0.00665	2.96%
Cobalt	mg/L	0.00189	0.00187	1.06%
Molybdenum	mg/L	0.00356	0.00369	3.59%
BY-AP-MW-20V				
Sample Date = 5/24/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	14.4	14.4	0.00%
Chloride	mg/L	35.4	37.5	5.76%
Sulfate	mg/L	3.79	3.66	3.49%
Arsenic	mg/L	0.0188	0.0186	1.07%
Barium	mg/L	0.0906	0.0907	0.11%
Cobalt	mg/L	0.0264	0.0268	1.50%
Molybdenum	mg/L	0.00164	0.00161	1.85%
BY-AP-MW-7				
Sample Date = 5/24/2022				
Analyte	Units	Original Result	Duplicate Result	RPD (%)
Calcium	mg/L	10.5	10.7	1.89%
Chloride	mg/L	13.2	12.9	2.30%
Sulfate	mg/L	7.14	7.53	5.32%
Arsenic	mg/L	0.0197	0.0192	2.57%
Barium	mg/L	0.0717	0.0715	0.28%
Cobalt	mg/L	0.023	0.0234	1.72%

Notes:

1. The RPD calculations presented are for analyte pairs where original and duplicate results are valid, unqualified detections.
2. RPD calculation results less than or equal to 20% are considered acceptable.
3. Results greater than 20% are given data validation flags to indicate RPD criteria failure. Communication to sampling team and lab may be necessary to explore nature of RPD failure(s).



Table 4b. - Field QC: Blank Detections

Plant Barry Ash Pond
05/24/2022 - 11/02/2022

Parameters Detected Above MDL					
Sample Date	QC Location	Parameter	Blank Concentration	Units	MDL
11/02/2022	EB-1	Chromium	0.00025 J	mg/L	0.0002
11/01/2022	EB-1	Chromium	0.00021 J	mg/L	0.0002
11/01/2022	FB-3	Chromium	0.00027 J	mg/L	0.0002
10/31/2022	FB-1	Chromium	0.00021 J	mg/L	0.0002
05/31/2022	EB-1	Chromium	0.00027 J	mg/L	0.0002
05/31/2022	FB-1	Chromium	0.00027 J	mg/L	0.0002

Notes:

1. Lab qualifiers have been appended to result when applicable
2. MDL = Method Detection Limit
3. Only Appendix 4 Constituents were compared and validated. Radium data was not validated.
4. mg/L = milligrams per liter



Table 5. Summary of Background Levels and Groundwater Protection Standards

Plant Barry Ash Pond

Appendix IV Analytes			
Analyte	Units	Background	GWPS
Fluoride	mg/L	0.1	4
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.0017	0.01
Barium	mg/L	0.183	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0157	0.0157
Lead	mg/L	0.00126	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0002	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.0002	0.002
Combined Radium 226 + 228	pCi/L	3	5

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. Background concentrations/limits are used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and ADEM Rule 335-13-15-.06(h).

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	DO mg/L	ORP mv	Turbidity NTU	Field Temperature C	pH_Field SU	Conductivity uS/cm
Upgradient	BY-UP-MW-1	05/31/2022	0.34	193.96	2	20.77	3.89	57.06
Upgradient	BY-UP-MW-2	05/31/2022	6.27	226.41	4.82	20	3.31	50.04
Upgradient	BY-UP-MW-3	05/31/2022	5.82	223.76	3.1	20.09	3.54	49.57
Upgradient	BY-UP-MW-4	05/31/2022	6.48	223.18	8.23	22.67	3.97	52.45
Downgradient	BY-AP-MW-1	05/24/2022	0.12	-8.45	2.83	21.65	5.44	758.26
Downgradient	BY-AP-MW-10	05/24/2022	0.32	-17.07	0.2	21.37	5.81	680.19
Downgradient	BY-AP-MW-11	05/23/2022	0.27	-96.88	3.74	21.18	6.32	555.51
Downgradient	BY-AP-MW-12	05/23/2022	0.12	-72.55	2.67	20.85	6.12	578.36
Downgradient	BY-AP-MW-13	05/24/2022	0.23	36.78	4.94	20.79	5.5	445.45
Downgradient	BY-AP-MW-14	05/25/2022	0.33	-33.94	3.06	20.59	6.14	512.57
Downgradient	BY-AP-MW-15	05/25/2022	0.09	-119.75	3.64	21.92	6.68	564.84
Downgradient	BY-AP-MW-16	05/25/2022	0.09	-3.49	1.8	22.27	5.74	474.44
Downgradient	BY-AP-MW-2	05/24/2022	0.26	168.85	0.78	22.12	4.78	53.16
Downgradient	BY-AP-MW-3	05/25/2022	1.61	129.55	0.66	21.52	4.64	65.47
Downgradient	BY-AP-MW-4	05/25/2022	1.3	226.63	1.54	22.57	4.6	72.52
Downgradient	BY-AP-MW-5	05/25/2022	0.13	-73.02	1.77	22.21	5.99	426.36
Downgradient	BY-AP-MW-6	05/25/2022	0.49	268.89	0.87	21.47	4.57	52.89
Downgradient	BY-AP-MW-7	05/24/2022	0.3	-25	3.47	21.47	6.32	243.46
Downgradient	BY-AP-MW-8	05/24/2022	0.19	-16.23	3.51	21.81	5.6	508.1
Downgradient	BY-AP-MW-9	05/24/2022	0.25	-73.75	1.63	22.35	6.03	543.47
Vert. Delineation	BY-AP-MW-10V	05/24/2022	0.19	-41.2	1.76	21.44	5.77	726.04

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	DO mg/L	ORP mv	Turbidity NTU	Field Temperature C	pH_Field SU	Conductivity uS/cm
Vert. Delineation	BY-AP-MW-12V	05/23/2022	0.11	-67.29	1.04	20.7	6.22	616.65
Vert. Delineation	BY-AP-MW-13V	05/25/2022	0.17	-52.01	2.04	20.8	6.3	561.68
Vert. Delineation	BY-AP-MW-14V	05/24/2022	0.42	-104.33	1.07	21.42	6.71	969.26
Vert. Delineation	BY-AP-MW-15V	05/24/2022	0.26	44.5	6.89	21.14	5.7	594.35
Vert. Delineation	BY-AP-MW-16V	05/25/2022	0.39	117.25	1.38	22.23	5.26	318.16
Vert. Delineation	BY-AP-MW-17V	05/25/2022	0.39	116.46	1.38	21.85	6.34	2332.61
Vert. Delineation	BY-AP-MW-1V	05/24/2022	0.14	133.41	0.51	22.07	4.9	375.09
Vert. Delineation	BY-AP-MW-20V	05/24/2022	0.25	-77.95	1.01	20.55	6.28	549.97
Vert. Delineation	BY-AP-MW-23V	05/25/2022	0.44	-36.42	2.11	20.55	7.44	636.87
Vert. Delineation	BY-AP-MW-25V	05/25/2022	3.54	261.01	1.53	22.35	5.45	29.82
Vert. Delineation	BY-AP-MW-5V	05/25/2022	1.23	99.33	1.64	22.54	5.88	114.39
Vert. Delineation	BY-AP-MW-7V	05/24/2022	0.37	-124.32	1.73	22.25	6.92	424.17
Vert. Delineation	BY-AP-MW-8V	05/23/2022	0.24	-24.72	1.61	20.86	6.08	557.51
Horiz. Delineation	BY-AP-MW-17H	05/25/2022	0.29	-16.59	2.84	21.46	6.21	388.95
Horiz. Delineation	BY-AP-MW-18H	05/23/2022	0.2	-70.12	1.58	20.29	6.24	495.93
Horiz. Delineation	BY-AP-MW-19H	05/24/2022	0.21	-59.87	1.65	20.19	5.8	206.31
Horiz. Delineation	BY-AP-MW-20H	05/23/2022	0.12	-56.87	1.75	19.98	6.15	784.43
Horiz. Delineation	BY-AP-MW-22H	05/24/2022	0.17	-70.67	2.32	20.28	6.57	669.92
Horiz. Delineation	BY-AP-MW-23H	05/25/2022	0.22	-1.91	1.45	20.16	5.92	411.87
Horiz. Delineation	BY-AP-MW-24H	05/24/2022	0.1	-80.03	2.5	21.7	6.22	792.5
Horiz. Delineation	BY-AP-MW-25H	05/25/2022	0.84	285.43	0.93	22.54	5.23	43

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	BY-UP-MW-1	05/31/2022	0.0567 J	1.14	1.93	<0.06	3.89	12.8
Upgradient	BY-UP-MW-2	05/31/2022	<0.03	1.24	2.17	<0.06	3.31	8.09
Upgradient	BY-UP-MW-3	05/31/2022	<0.03	1.95	3.39	<0.06	3.54	7.02
Upgradient	BY-UP-MW-4	05/31/2022	<0.03	2.02	3.31	<0.06	3.97	7.94
Downgradient	BY-AP-MW-1	05/24/2022	2.08	43.9	27.6	0.0801 J	5.44	21
Downgradient	BY-AP-MW-10	05/24/2022	2.34	63.9	27.7	<0.06	5.81	14.7
Downgradient	BY-AP-MW-11	05/23/2022	0.0558 J	26	25.1	0.0709 J	6.32	29.3
Downgradient	BY-AP-MW-12	05/23/2022	0.0626 J	20.6	26.2	0.0873 J	6.12	13
Downgradient	BY-AP-MW-13	05/24/2022	0.0457 J	19.2	43.5	0.0769 J	5.5	38.3
Downgradient	BY-AP-MW-14	05/25/2022	0.0618 J	11.4	45.3	0.0733 J	6.14	105
Downgradient	BY-AP-MW-15	05/25/2022	0.0826 J	6.41	80.7	0.214	6.68	1.8 J
Downgradient	BY-AP-MW-16	05/25/2022	1.98	13.9	20	<0.06	5.74	6.29
Downgradient	BY-AP-MW-2	05/24/2022	<0.03	2.45	9.21	<0.06	4.78	0.615 J
Downgradient	BY-AP-MW-3	05/25/2022	<0.03	1.29	15.2	<0.06	4.64	1.41 J
Downgradient	BY-AP-MW-4	05/25/2022	<0.03	1.69	16.1	<0.06	4.6	1.97 J
Downgradient	BY-AP-MW-5	05/25/2022	0.063 J	14.6	20	<0.06	5.99	5.53
Downgradient	BY-AP-MW-6	05/25/2022	<0.03	1.62	6.63	<0.06	4.57	1.27 J
Downgradient	BY-AP-MW-7	05/24/2022	0.0369 J	10.5	13.2	0.0724 J	6.32	7.14
Downgradient	BY-AP-MW-8	05/24/2022	1.12	31.5	27.2	0.0713 J	5.6	9.75
Downgradient	BY-AP-MW-9	05/24/2022	2.01	38.3	17.3	<0.06	6.03	5.76
Vert. Delineation	BY-AP-MW-10V	05/24/2022	0.938	65	19.4	<0.06	5.77	5.73

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Vert. Delineation	BY-AP-MW-12V	05/23/2022	0.0765 J	20.6	25.6	<0.06	6.22	6.64
Vert. Delineation	BY-AP-MW-13V	05/25/2022	0.0852 J	12	59.3	<0.06	6.3	122
Vert. Delineation	BY-AP-MW-14V	05/24/2022	0.376	7.03	184	0.291	6.71	13.6
Vert. Delineation	BY-AP-MW-15V	05/24/2022	0.0376 J	8.1	191	<0.06	5.7	1.77 J
Vert. Delineation	BY-AP-MW-16V	05/25/2022	<0.03	1.8	56.6	<0.06	5.26	35.1
Vert. Delineation	BY-AP-MW-17V	05/25/2022	0.177	49.6	649	0.0799 J	6.34	49.1
Vert. Delineation	BY-AP-MW-1V	05/24/2022	0.0333 J	3.55	95.1	<0.06	4.9	21.1
Vert. Delineation	BY-AP-MW-20V	05/24/2022	0.0977 J	14.4	35.4	0.0811 J	6.28	3.79
Vert. Delineation	BY-AP-MW-23V	05/25/2022	0.307	0.899	106	0.385	7.44	4.25
Vert. Delineation	BY-AP-MW-25V	05/25/2022	<0.03	0.573	3.22	<0.06	5.45	2.13
Vert. Delineation	BY-AP-MW-5V	05/25/2022	<0.03	2.62	22.6	<0.06	5.88	2.91
Vert. Delineation	BY-AP-MW-7V	05/24/2022	0.165	8.84	40.4	0.0869 J	6.92	6.06
Vert. Delineation	BY-AP-MW-8V	05/23/2022	0.259	24.4	22.1	0.108 J	6.08	8.35
Horiz. Delineation	BY-AP-MW-17H	05/25/2022	0.0597 J	11.6	16	0.138	6.21	3.58
Horiz. Delineation	BY-AP-MW-18H	05/23/2022	0.91	25.5	18.9	0.0857 J	6.24	9.46
Horiz. Delineation	BY-AP-MW-19H	05/24/2022	0.159	18.6	10.4	<0.06	5.8	34.7
Horiz. Delineation	BY-AP-MW-20H	05/23/2022	0.0653 J	28.6	44.1	0.124 J	6.15	95.1
Horiz. Delineation	BY-AP-MW-22H	05/24/2022	0.0562 J	14.4	57.1	0.318	6.57	103
Horiz. Delineation	BY-AP-MW-23H	05/25/2022	0.0526 J	24.5	6.63	<0.06	5.92	4.01
Horiz. Delineation	BY-AP-MW-24H	05/24/2022	0.351	17.9	45.7	0.149	6.22	92.3
Horiz. Delineation	BY-AP-MW-25H	05/25/2022	<0.03	0.949	5.32	<0.06	5.23	4.24

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 05/23/2022 - 05/31/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	BY-UP-MW-1	05/31/2022	<0.000508	0.000237	0.1	<0.000406	<6.8e-005	0.000334 J	0.00487	<0.06
Upgradient	BY-UP-MW-2	05/31/2022	<0.000508	8.79e-005 J	0.153	0.000413 J	<6.8e-005	0.0012	0.00194	<0.06
Upgradient	BY-UP-MW-3	05/31/2022	<0.000508	<8.1e-005	0.0992	<0.000406	<6.8e-005	0.00139	0.00149	<0.06
Upgradient	BY-UP-MW-4	05/31/2022	<0.000508	0.000203	0.129	<0.000406	<6.8e-005	0.00156	0.0015	<0.06
Downgradient	BY-AP-MW-1	05/24/2022	<0.000508	0.0767	0.343	<0.000406	<6.8e-005	0.00238	0.000914	<0.06
Downgradient	BY-AP-MW-10	05/24/2022	<0.000508	0.0775	0.0618	<0.000406	<6.8e-005	0.000522 J	0.000543	<0.06
Downgradient	BY-AP-MW-11	05/23/2022	<0.000508	0.0142	0.0691	<0.000406	<6.8e-005	0.00474	0.00118	0.0709 J
Downgradient	BY-AP-MW-12	05/23/2022	<0.000508	0.0245	0.0802	<0.000406	<6.8e-005	0.00374	0.00428	0.0873 J
Downgradient	BY-AP-MW-13	05/24/2022	<0.000508	0.0128	0.0723	<0.000406	<6.8e-005	0.00685	0.00189	0.0769 J
Downgradient	BY-AP-MW-14	05/25/2022	<0.000508	0.0183	0.0693	<0.000406	<6.8e-005	0.00345	0.00125	0.0733 J
Downgradient	BY-AP-MW-15	05/25/2022	<0.000508	0.0176	0.0846	<0.000406	<6.8e-005	0.000489 J	0.0364	0.214
Downgradient	BY-AP-MW-16	05/25/2022	<0.000508	0.0134	0.0977	<0.000406	<6.8e-005	0.00135	0.0155	<0.06
Downgradient	BY-AP-MW-2	05/24/2022	<0.000508	0.00115	0.0248	<0.000406	<6.8e-005	<0.000203	0.00582	<0.06
Downgradient	BY-AP-MW-3	05/25/2022	<0.000508	<8.1e-005	0.0494	<0.000406	<6.8e-005	0.00104	0.000279	<0.06
Downgradient	BY-AP-MW-4	05/25/2022	<0.000508	<8.1e-005	0.0399	0.000649 J	<6.8e-005	0.000257 J	0.00455	<0.06
Downgradient	BY-AP-MW-5	05/25/2022	<0.000508	0.0316	0.155	<0.000406	<6.8e-005	0.00103	0.00184	<0.06
Downgradient	BY-AP-MW-6	05/25/2022	<0.000508	<8.1e-005	0.0268	<0.000406	0.000306	0.000286 J	0.000977	<0.06
Downgradient	BY-AP-MW-7	05/24/2022	<0.000508	0.0197	0.0717	<0.000406	<6.8e-005	0.000584 J	0.023	0.0724 J
Downgradient	BY-AP-MW-8	05/24/2022	<0.000508	0.0583	0.142	<0.000406	<6.8e-005	0.00128	0.000666	0.0713 J
Downgradient	BY-AP-MW-9	05/24/2022	<0.000508	0.0404	0.117	<0.000406	<6.8e-005	0.000701 J	0.000695	<0.06

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 05/23/2022 - 05/31/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Upgradient	BY-UP-MW-1	05/31/2022	8.38e-005 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.34
Upgradient	BY-UP-MW-2	05/31/2022	7.81e-005 J	<0.007105	<0.0003	<0.000102	0.000633 J	<6.8e-005	1.38
Upgradient	BY-UP-MW-3	05/31/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.67
Upgradient	BY-UP-MW-4	05/31/2022	0.000173 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.47
Downgradient	BY-AP-MW-1	05/24/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	2.12
Downgradient	BY-AP-MW-10	05/24/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.36 U
Downgradient	BY-AP-MW-11	05/23/2022	9.32e-005 J	0.0269	<0.0003	0.00141	<0.000508	<6.8e-005	0.452 U
Downgradient	BY-AP-MW-12	05/23/2022	0.000179 J	<0.007105	<0.0003	0.00109	<0.000508	<6.8e-005	1.4
Downgradient	BY-AP-MW-13	05/24/2022	0.000146 J	<0.007105	<0.0003	0.00356	0.000558 J	<6.8e-005	0.915 U
Downgradient	BY-AP-MW-14	05/25/2022	0.000102 J	<0.007105	<0.0003	0.000518	<0.000508	<6.8e-005	1.25
Downgradient	BY-AP-MW-15	05/25/2022	<6.8e-005	0.0118 J	<0.0003	0.0018	<0.000508	<6.8e-005	1.3
Downgradient	BY-AP-MW-16	05/25/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.927 U
Downgradient	BY-AP-MW-2	05/24/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.732 U
Downgradient	BY-AP-MW-3	05/25/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.72
Downgradient	BY-AP-MW-4	05/25/2022	0.000176 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.821 U
Downgradient	BY-AP-MW-5	05/25/2022	<6.8e-005	<0.007105	<0.0003	0.000114 J	<0.000508	<6.8e-005	1.71
Downgradient	BY-AP-MW-6	05/25/2022	0.0112	<0.007105	<0.0003	0.000325	<0.000508	<6.8e-005	1.06 U
Downgradient	BY-AP-MW-7	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.000178 J	<0.000508	<6.8e-005	1.05 U
Downgradient	BY-AP-MW-8	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.000234	<0.000508	<6.8e-005	0.733 U
Downgradient	BY-AP-MW-9	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.00024	<0.000508	<6.8e-005	2.11

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Vert. Delineation	BY-AP-MW-10V	05/24/2022	<0.000508	0.000362	0.188	<0.000406	<6.8e-005	0.000493 J	0.000618	<0.06
Vert. Delineation	BY-AP-MW-12V	05/23/2022	<0.000508	0.0257	0.103	<0.000406	<6.8e-005	0.000813 J	0.00255	<0.06
Vert. Delineation	BY-AP-MW-13V	05/25/2022	<0.000508	0.0102	0.0888	<0.000406	<6.8e-005	0.00488	0.00119	<0.06
Vert. Delineation	BY-AP-MW-14V	05/24/2022	<0.000508	0.00572	0.067	<0.000406	<6.8e-005	0.000602 J	0.00327	0.291
Vert. Delineation	BY-AP-MW-15V	05/24/2022	<0.000508	0.0333	0.156	<0.000406	0.00018 J	0.000234 J	0.0764	<0.06
Vert. Delineation	BY-AP-MW-16V	05/25/2022	<0.000508	0.00112	0.0569	<0.000406	<6.8e-005	<0.000203	0.0139	<0.06
Vert. Delineation	BY-AP-MW-17V	05/25/2022	<0.000508	0.00192	0.698	<0.000406	<6.8e-005	0.000477 J	0.0685	0.0799 J
Vert. Delineation	BY-AP-MW-1V	05/24/2022	<0.000508	0.000793	0.0863	<0.000406	<6.8e-005	0.000381 J	0.00765	<0.06
Vert. Delineation	BY-AP-MW-20V	05/24/2022	<0.000508	0.0188	0.0906	<0.000406	<6.8e-005	0.000464 J	0.0264	0.0811 J
Vert. Delineation	BY-AP-MW-23V	05/25/2022	<0.000508	0.00149	0.00735	<0.000406	<6.8e-005	0.000455 J	<6.8e-005	0.385
Vert. Delineation	BY-AP-MW-25V	05/25/2022	<0.000508	<8.1e-005	0.00993	<0.000406	<6.8e-005	0.00126	0.000277	<0.06
Vert. Delineation	BY-AP-MW-5V	05/25/2022	<0.000508	0.000171 J	0.0574	<0.000406	<6.8e-005	0.000476 J	0.00106	<0.06
Vert. Delineation	BY-AP-MW-7V	05/24/2022	<0.000508	0.00218	0.0803	<0.000406	<6.8e-005	0.000226 J	0.00011 J	0.0869 J
Vert. Delineation	BY-AP-MW-8V	05/23/2022	<0.000508	0.00386	0.277	<0.000406	<6.8e-005	0.00124	0.000921	0.108 J
Horiz. Delineation	BY-AP-MW-17H	05/25/2022	<0.000508	0.03	0.126	<0.000406	<6.8e-005	0.000334 J	0.0013	0.138
Horiz. Delineation	BY-AP-MW-18H	05/23/2022	<0.000508	0.0143	0.127	<0.000406	<6.8e-005	0.00133	0.00108	0.0857 J
Horiz. Delineation	BY-AP-MW-19H	05/24/2022	<0.000508	0.000993	0.0796	<0.000406	<6.8e-005	0.000423 J	0.00513	<0.06
Horiz. Delineation	BY-AP-MW-20H	05/23/2022	<0.000508	0.0136	0.0963	<0.000406	<6.8e-005	0.00233	0.00423	0.124 J
Horiz. Delineation	BY-AP-MW-22H	05/24/2022	<0.000508	0.0197	0.215	<0.000406	<6.8e-005	0.000566 J	0.0027	0.318
Horiz. Delineation	BY-AP-MW-23H	05/25/2022	<0.000508	0.00518	0.174	<0.000406	<6.8e-005	0.000514 J	0.002	<0.06

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 05/23/2022 - 05/31/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Vert. Delineation	BY-AP-MW-10V	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.000111 J	<0.000508	<6.8e-005	1.2
Vert. Delineation	BY-AP-MW-12V	05/23/2022	<6.8e-005	<0.007105	<0.0003	0.00123	<0.000508	<6.8e-005	0.962 U
Vert. Delineation	BY-AP-MW-13V	05/25/2022	<6.8e-005	0.0318	<0.0003	0.000796	<0.000508	<6.8e-005	0.951 U
Vert. Delineation	BY-AP-MW-14V	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.0031	<0.000508	<6.8e-005	1.26
Vert. Delineation	BY-AP-MW-15V	05/24/2022	0.000111 J	<0.007105	<0.0003	<0.000102	<0.000508	0.00014 J	1.85
Vert. Delineation	BY-AP-MW-16V	05/25/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	8.86e-005 J	1.03 U
Vert. Delineation	BY-AP-MW-17V	05/25/2022	7.37e-005 J	<0.007105	<0.0003	0.000428	<0.000508	0.000103 J	5.37
Vert. Delineation	BY-AP-MW-1V	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.000108 J	<0.000508	<6.8e-005	2
Vert. Delineation	BY-AP-MW-20V	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.00164	<0.000508	<6.8e-005	0.97 U
Vert. Delineation	BY-AP-MW-23V	05/25/2022	0.000124 J	<0.007105	<0.0003	0.00142	<0.000508	<6.8e-005	0.285 U
Vert. Delineation	BY-AP-MW-25V	05/25/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.527 U
Vert. Delineation	BY-AP-MW-5V	05/25/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.03 U
Vert. Delineation	BY-AP-MW-7V	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.00074	<0.000508	<6.8e-005	0.619 U
Vert. Delineation	BY-AP-MW-8V	05/23/2022	<6.8e-005	<0.007105	<0.0003	0.000286	<0.000508	<6.8e-005	1.13
Horiz. Delineation	BY-AP-MW-17H	05/25/2022	<6.8e-005	<0.007105	<0.0003	0.000454	<0.000508	<6.8e-005	1.71
Horiz. Delineation	BY-AP-MW-18H	05/23/2022	<6.8e-005	<0.007105	<0.0003	0.000361	<0.000508	<6.8e-005	1.03 U
Horiz. Delineation	BY-AP-MW-19H	05/24/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.06 U
Horiz. Delineation	BY-AP-MW-20H	05/23/2022	<6.8e-005	<0.007105	<0.0003	0.000537	0.000538 J	<6.8e-005	0.657 U
Horiz. Delineation	BY-AP-MW-22H	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.00145	<0.000508	<6.8e-005	0.656 U
Horiz. Delineation	BY-AP-MW-23H	05/25/2022	<6.8e-005	<0.007105	<0.0003	0.000131 J	<0.000508	<6.8e-005	0.674 U

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 05/23/2022 - 05/31/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Horiz. Delineation	BY-AP-MW-24H	05/24/2022	<0.000508	0.0718	0.245	<0.000406	<6.8e-005	0.000809 J	0.00571	0.149
Horiz. Delineation	BY-AP-MW-25H	05/25/2022	<0.000508	0.000196 J	0.0197	<0.000406	<6.8e-005	0.00103	0.00132	<0.06

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Horiz. Delineation	BY-AP-MW-24H	05/24/2022	<6.8e-005	<0.007105	<0.0003	0.000923	<0.000508	<6.8e-005	1.08 U
Horiz. Delineation	BY-AP-MW-25H	05/25/2022	<6.8e-005	<0.007105	<0.0003	0.000103 J	<0.000508	<6.8e-005	0.682 U

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Analytical Results Summary Plant Barry Ash Pond 05/23/2022 - 05/31/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Iron Total mg/L	Magnesium Total mg/L	Silicon mg/L	Sodium mg/L	Calcium mg/L	Silica mg/L	Aluminum mg/L
Upgradient	BY-UP-MW-1	05/31/2022	0	4.8	2.23	3.15	2.05	1.14	6.74	0.0898
Upgradient	BY-UP-MW-2	05/31/2022	0	0.0704	2.48	3.92	2.25	1.24	8.39	0.127
Upgradient	BY-UP-MW-3	05/31/2022	0	0.027 J	2.05	4.02	3.11	1.95	8.6	0.0446
Upgradient	BY-UP-MW-4	05/31/2022	0	0.222	2.2	4.12	2.69	2.02	8.82	0.233
Downgradient	BY-AP-MW-1	05/24/2022	0	155	13.1	10.9	24.4	43.9	23.3	0.0257
Downgradient	BY-AP-MW-10	05/24/2022	0	68	17.6	12.1	26.2	63.9	25.9	<0.00609
Downgradient	BY-AP-MW-11	05/23/2022	0	80	13.8	7.55	61	26	16.2	0.0586
Downgradient	BY-AP-MW-12	05/23/2022	0	74	15.3	7.48	44.8	20.6	16	0.19
Downgradient	BY-AP-MW-13	05/24/2022	0	27.1	6.94	7.28	53.9	19.2	15.6	0.116
Downgradient	BY-AP-MW-14	05/25/2022	0	35.3	6.72	9.37	80.4	11.4	20.1	0.195
Downgradient	BY-AP-MW-15	05/25/2022	0	105	5.31	6.03	36	6.41	12.9	<0.00609
Downgradient	BY-AP-MW-16	05/25/2022	0	94.6	7.61	11.2	24.6	13.9	24	0.0137
Downgradient	BY-AP-MW-2	05/24/2022	0	0.305	1.62	7.65	4.38	2.45	16.4	0.0125
Downgradient	BY-AP-MW-3	05/25/2022	0	0.00821 J	1.11	6.22	7.98	1.29	13.3	0.013
Downgradient	BY-AP-MW-4	05/25/2022	0	0.124	1.38	6.79	6.87	1.69	14.5	0.0313
Downgradient	BY-AP-MW-5	05/25/2022	0	84.9	5.5	12.2	19.8	14.6	26.1	0.00862 J
Downgradient	BY-AP-MW-6	05/25/2022	0	0.00905 J	1.2	6.62	6.62	1.62	14.2	0.00926 J
Downgradient	BY-AP-MW-7	05/24/2022	0	19.8	8.61	6.54	23.1	10.5	14	0.00839 J
Downgradient	BY-AP-MW-8	05/24/2022	0	74	10	15.3	19.4	31.5	32.7	0.00884 J
Downgradient	BY-AP-MW-9	05/24/2022	0	81.4	11.6	11.5	19.6	38.3	24.6	<0.00609

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Alkalinity Total as CaCO3 mg/L	Carbonate Alkalinity as CaCO3 mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Carbon, Total Organic mg/L	Chloride mg/L
Upgradient	BY-UP-MW-1	05/31/2022	0.154	0.444 J	<0.2	8.56	-10000	8.56	1.58 J	1.93
Upgradient	BY-UP-MW-2	05/31/2022	0.0241	0.905	1.84	0.44	-10000	-10000	1.14 J	2.17
Upgradient	BY-UP-MW-3	05/31/2022	0.0196	0.987	2.11	1.24	-10000	1.24	<1	3.39
Upgradient	BY-UP-MW-4	05/31/2022	0.0173	1.05	2.55	0.44	-10000	-10000	<1	3.31
Downgradient	BY-AP-MW-1	05/24/2022	0.946	2.25	0.331	371	-10000	371	15.6	27.6
Downgradient	BY-AP-MW-10	05/24/2022	1.82	1.46	0.257 J	337	-10000	337	12.4	30.8
Downgradient	BY-AP-MW-11	05/23/2022	0.625	9.56	0.279 J	318	-10000	318	28.6	25.1
Downgradient	BY-AP-MW-12	05/23/2022	0.849	2.76	0.212 J	274	-10000	274	20.1	26.2
Downgradient	BY-AP-MW-13	05/24/2022	0.451	2.52	<0.2	166	-10000	166	24	43.5
Downgradient	BY-AP-MW-14	05/25/2022	0.316	2.54	<0.2	196	-10000	196	17	45.3
Downgradient	BY-AP-MW-15	05/25/2022	0.741	4.23	0.283 J	101	-10000	101	4.99	80.7
Downgradient	BY-AP-MW-16	05/25/2022	0.845	2.11	0.282 J	219	-10000	219	10.5	20
Downgradient	BY-AP-MW-2	05/24/2022	0.272	0.969	<0.2	12	-10000	12	<1	9.21
Downgradient	BY-AP-MW-3	05/25/2022	0.00891	1.24	<0.2	2.52	-10000	2.52	<1	15.2
Downgradient	BY-AP-MW-4	05/25/2022	0.0207	1.44	<0.2	1.76	-10000	1.76	<1	16.1
Downgradient	BY-AP-MW-5	05/25/2022	0.67	1.46	0.23 J	193	-10000	193	14.5	20
Downgradient	BY-AP-MW-6	05/25/2022	0.00532	0.987	<0.2	16	-10000	16	<1	6.63
Downgradient	BY-AP-MW-7	05/24/2022	0.42	1.34	<0.2	124	-10000	124	5.15	13.2
Downgradient	BY-AP-MW-8	05/24/2022	1.78	0.802	0.243 J	238	-10000	238	13.4	27.2
Downgradient	BY-AP-MW-9	05/24/2022	2.16	1.03	0.3	255	-10000	255	12.3	17.3

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

**Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfate mg/L
Upgradient	BY-UP-MW-1	05/31/2022	12.8
Upgradient	BY-UP-MW-2	05/31/2022	8.09
Upgradient	BY-UP-MW-3	05/31/2022	7.02
Upgradient	BY-UP-MW-4	05/31/2022	7.94
Downgradient	BY-AP-MW-1	05/24/2022	8.45
Downgradient	BY-AP-MW-10	05/24/2022	5.93
Downgradient	BY-AP-MW-11	05/23/2022	29.3
Downgradient	BY-AP-MW-12	05/23/2022	13
Downgradient	BY-AP-MW-13	05/24/2022	38.3
Downgradient	BY-AP-MW-14	05/25/2022	105
Downgradient	BY-AP-MW-15	05/25/2022	1.8 J
Downgradient	BY-AP-MW-16	05/25/2022	6.29
Downgradient	BY-AP-MW-2	05/24/2022	0.615 J
Downgradient	BY-AP-MW-3	05/25/2022	1.41 J
Downgradient	BY-AP-MW-4	05/25/2022	1.97 J
Downgradient	BY-AP-MW-5	05/25/2022	5.53
Downgradient	BY-AP-MW-6	05/25/2022	1.27 J
Downgradient	BY-AP-MW-7	05/24/2022	7.14
Downgradient	BY-AP-MW-8	05/24/2022	9.75
Downgradient	BY-AP-MW-9	05/24/2022	5.76

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Iron Total mg/L	Magnesium Total mg/L	Silicon mg/L	Sodium mg/L	Calcium mg/L	Silica mg/L	Aluminum mg/L
Vert. Delineation	BY-AP-MW-10V	05/24/2022	0	106	11.4	13.9	22.7	65	29.7	0.00682 J
Vert. Delineation	BY-AP-MW-12V	05/23/2022	0	86.6	14.7	6.58	42	20.6	14.1	0.00923 J
Vert. Delineation	BY-AP-MW-13V	05/25/2022	0	50.7	6.72	6.78	72.6	12	14.5	0.0133
Vert. Delineation	BY-AP-MW-14V	05/24/2022	0	25.5	3.56	6.68	174	7.03	14.3	0.0154
Vert. Delineation	BY-AP-MW-15V	05/24/2022	0	53.7	5.58	8.04	77.9	8.1	17.2	0.0497
Vert. Delineation	BY-AP-MW-16V	05/25/2022	0	4.18	1.77	6.54	57	1.8	14	0.0132
Vert. Delineation	BY-AP-MW-17V	05/25/2022	0	0.608	35.1	5.7	407	49.6	12.2	0.0639
Vert. Delineation	BY-AP-MW-1V	05/24/2022	0	0.646	2.25	7.08	65.4	3.55	15.2	0.0214
Vert. Delineation	BY-AP-MW-20V	05/24/2022	0	80.5	8.64	6.41	44.4	14.4	13.7	0.0357
Vert. Delineation	BY-AP-MW-23V	05/25/2022	0	0.605	0.527	5.94	139	0.899	12.7	0.0466
Vert. Delineation	BY-AP-MW-25V	05/25/2022	0	0.0431	0.353 J	6.33	4.55	0.573	13.5	0.0129
Vert. Delineation	BY-AP-MW-5V	05/25/2022	0	0.543	1.97	6.46	18.1	2.62	13.8	0.00715 J
Vert. Delineation	BY-AP-MW-7V	05/24/2022	0	19.3	4.88	8.68	76.8	8.84	18.6	0.0309
Vert. Delineation	BY-AP-MW-8V	05/23/2022	0	73.1	14	7.13	36.3	24.4	15.3	0.0084 J
Horiz. Delineation	BY-AP-MW-17H	05/25/2022	0	78.2	5.3	7.31	16.5	11.6	15.6	0.0401
Horiz. Delineation	BY-AP-MW-18H	05/23/2022	0	84.1	10.7	10.3	17.2	25.5	22	0.0211
Horiz. Delineation	BY-AP-MW-19H	05/24/2022	0	13.4	3.82	8.9	11.4	18.6	19	0.0482
Horiz. Delineation	BY-AP-MW-20H	05/23/2022	0	55.8	17.9	7.78	96.4	28.6	16.6	0.0264
Horiz. Delineation	BY-AP-MW-22H	05/24/2022	0	69.9	13.4	9.11	77.2	14.4	19.5	0.0206
Horiz. Delineation	BY-AP-MW-23H	05/25/2022	0	56.4	7.3	16	18.9	24.5	34.2	0.0145

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

**Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Alkalinity Total as CaCO3 mg/L	Carbonate Alkalinity as CaCO3 mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Carbon, Total Organic mg/L	Chloride mg/L
Vert. Delineation	BY-AP-MW-10V	05/24/2022	0.812	2.12	0.271 J	351	-10000	351	12	19.4
Vert. Delineation	BY-AP-MW-12V	05/23/2022	1.18	2.57	0.259 J	295	-10000	295	15	25.6
Vert. Delineation	BY-AP-MW-13V	05/25/2022	0.794	9.48	<0.2	174	-10000	174	20.4	59.3
Vert. Delineation	BY-AP-MW-14V	05/24/2022	0.349	7.91	<0.2	171	-10000	171	4.37	184
Vert. Delineation	BY-AP-MW-15V	05/24/2022	1.13	3.25	0.255 J	33.4	-10000	33.4	1.37 J	191
Vert. Delineation	BY-AP-MW-16V	05/25/2022	0.15	2	<0.2	22.6	-10000	22.6	1.64 J	56.6
Vert. Delineation	BY-AP-MW-17V	05/25/2022	2.34	6.7	<0.2	91.8	-10000	91.7	<1	649
Vert. Delineation	BY-AP-MW-1V	05/24/2022	0.178	2.47	<0.2	21.8	-10000	21.8	1.04 J	95.1
Vert. Delineation	BY-AP-MW-20V	05/24/2022	1.92	2.29	0.216 J	208	-10000	208	8.66	35.4
Vert. Delineation	BY-AP-MW-23V	05/25/2022	0.0258	1.5	<0.2	168	2.01	166	1.11 J	106
Vert. Delineation	BY-AP-MW-25V	05/25/2022	0.00466	0.73	<0.2	8.04	-10000	8.02	<1	3.22
Vert. Delineation	BY-AP-MW-5V	05/25/2022	0.0325	1.04	<0.2	28.1	-10000	28	<1	22.6
Vert. Delineation	BY-AP-MW-7V	05/24/2022	0.245	1.99	<0.2	160	-10000	160	4.26	40.4
Vert. Delineation	BY-AP-MW-8V	05/23/2022	0.762	2.59	0.298 J	267	-10000	267	16.2	22.1
Horiz. Delineation	BY-AP-MW-17H	05/25/2022	0.357	1.37	0.251 J	143	-10000	143	5.77	16
Horiz. Delineation	BY-AP-MW-18H	05/23/2022	1.29	1.28	0.579	213	-10000	213	14.4	18.9
Horiz. Delineation	BY-AP-MW-19H	05/24/2022	1.11	1.19	<0.2	78	-10000	78	3.99	10.4
Horiz. Delineation	BY-AP-MW-20H	05/23/2022	0.507	3.44	0.231 J	377	-10000	377	28.3	44.1
Horiz. Delineation	BY-AP-MW-22H	05/24/2022	0.552	2.06	0.243 J	246	-10000	246	17.5	57.1
Horiz. Delineation	BY-AP-MW-23H	05/25/2022	0.988	1.06	0.246 J	194	-10000	194	5.68	6.63

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

**Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022**

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfate mg/L
Vert. Delineation	BY-AP-MW-10V	05/24/2022	5.73
Vert. Delineation	BY-AP-MW-12V	05/23/2022	6.64
Vert. Delineation	BY-AP-MW-13V	05/25/2022	122
Vert. Delineation	BY-AP-MW-14V	05/24/2022	13.6
Vert. Delineation	BY-AP-MW-15V	05/24/2022	1.77 J
Vert. Delineation	BY-AP-MW-16V	05/25/2022	35.1
Vert. Delineation	BY-AP-MW-17V	05/25/2022	49.1
Vert. Delineation	BY-AP-MW-1V	05/24/2022	21.1
Vert. Delineation	BY-AP-MW-20V	05/24/2022	3.79
Vert. Delineation	BY-AP-MW-23V	05/25/2022	4.25
Vert. Delineation	BY-AP-MW-25V	05/25/2022	2.13
Vert. Delineation	BY-AP-MW-5V	05/25/2022	2.91
Vert. Delineation	BY-AP-MW-7V	05/24/2022	6.06
Vert. Delineation	BY-AP-MW-8V	05/23/2022	8.35
Horiz. Delineation	BY-AP-MW-17H	05/25/2022	3.58
Horiz. Delineation	BY-AP-MW-18H	05/23/2022	9.46
Horiz. Delineation	BY-AP-MW-19H	05/24/2022	34.7
Horiz. Delineation	BY-AP-MW-20H	05/23/2022	95.1
Horiz. Delineation	BY-AP-MW-22H	05/24/2022	103
Horiz. Delineation	BY-AP-MW-23H	05/25/2022	4.01

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sulfide mg/L	Iron Total mg/L	Magnesium Total mg/L	Silicon mg/L	Sodium mg/L	Calcium mg/L	Silica mg/L	Aluminum mg/L
Horiz. Delineation	BY-AP-MW-24H	05/24/2022	0	113	16.7	11.1	71.9	17.9	23.8	0.0262
Horiz. Delineation	BY-AP-MW-25H	05/25/2022	0	0.0796	0.787	7.42	5.34	0.949	15.9	0.0135

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

**Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022**

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Manganese Total mg/L	Potassium mg/L	Nitrate Nitrite mg/L as N	Alkalinity Total as CaCO3 mg/L	Carbonate Alkalinity as CaCO3 mg/L	Bicarbonate Alkalinity as CaCO3 mg/L	Carbon, Total Organic mg/L	Chloride mg/L
Horiz. Delineation	BY-AP-MW-24H	05/24/2022	0.22	2.55	0.287 J	334	-10000	334	25.8	50.8
Horiz. Delineation	BY-AP-MW-25H	05/25/2022	0.00351	0.958	<0.2	6.88	-10000	6.88	<1	5.32

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 6. First Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
05/23/2022 - 05/31/2022

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Sulfate mg/L
Horiz. Delineation	BY-AP-MW-24H	05/24/2022	24.3
Horiz. Delineation	BY-AP-MW-25H	05/25/2022	4.24

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. Shaded cells indicate result greater than GWPS, but does not necessarily indicate an SSL.

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
10/31/2022 - 12/20/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Upgradient	BY-UP-MW-1	11/01/2022	53.01	0.13	242.66	4.6	20.76	2.93
Upgradient	BY-UP-MW-2	11/01/2022	50.18	6.15	407.2	4.42	20.21	4.92
Upgradient	BY-UP-MW-3	11/01/2022	52.86	5.67	397.88	4.12	20.26	1.53
Upgradient	BY-UP-MW-4	11/01/2022	51.53	5.78	361.89	4.74	21.5	4.19
Downgradient	BY-AP-MW-1	11/02/2022	782.74	0.1	-26.34	5.56	21.95	4.28
Downgradient	BY-AP-MW-10	11/02/2022	618.82	0.04	-83.35	6.39	21.33	1.92
Downgradient	BY-AP-MW-11	11/01/2022	630.87	0.1	-63.97	6.28	20.85	4.51
Downgradient	BY-AP-MW-12	11/01/2022	536.42	0.05	-53.46	6.21	20.96	0.44
Downgradient	BY-AP-MW-13	11/01/2022	489.28	0.03	-30.54	6.09	21.32	4.84
Downgradient	BY-AP-MW-14	11/01/2022	586.92	0.11	-21.67	5.93	20.52	1.8
Downgradient	BY-AP-MW-15	11/01/2022	629.63	0.1	-112.69	6.64	21.53	1.37
Downgradient	BY-AP-MW-16	11/01/2022	595.22	0.13	-27.67	5.78	21.51	0.35
Downgradient	BY-AP-MW-2	11/02/2022	49.85	0.3	120.7	5.68	21.47	0.88
Downgradient	BY-AP-MW-3	11/01/2022	42.37	1.58	260.33	5.01	20.88	1.17
Downgradient	BY-AP-MW-4	10/31/2022	120.44	1.13	356.26	4.65	21.57	0.55
Downgradient	BY-AP-MW-5	10/31/2022	310.26	0.08	-37.62	5.99	21.99	0.58
Downgradient	BY-AP-MW-6	10/31/2022	220.73	1.04	297.46	4.9	21.05	1.1
Downgradient	BY-AP-MW-7	10/31/2022	528.67	0.06	-101.45	7.07	20.9	3.92
Downgradient	BY-AP-MW-8	11/02/2022	529.88	0.02	-89.66	6.28	20.3	1.02
Downgradient	BY-AP-MW-9	10/31/2022	543.05	0.03	-77.29	6.26	21.48	4.5

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Vert. Delineation	BY-AP-MW-10V	11/01/2022	691.49	0.04	-104.01	6.41	20.72	0.3
Vert. Delineation	BY-AP-MW-12V	11/01/2022	571.72	0.06	-63.17	6.32	21.07	0.43
Vert. Delineation	BY-AP-MW-13V	11/01/2022	559.23	0.03	-48.37	6.29	21.48	0.44
Vert. Delineation	BY-AP-MW-14V	11/01/2022	923.7	0.12	-123.73	6.9	21.07	0.71
Vert. Delineation	BY-AP-MW-15V	11/02/2022	829.25	0.09	30.84	5.38	20.62	3.2
Vert. Delineation	BY-AP-MW-16V	11/01/2022	353.95	0.16	129.12	5.13	21.97	0.68
Vert. Delineation	BY-AP-MW-17V	10/31/2022	3166.4	0.14	23.08	6.4	21.81	1.61
Vert. Delineation	BY-AP-MW-1V	11/01/2022	437.28	0.11	143.73	5.21	21.9	0.9
Vert. Delineation	BY-AP-MW-20V	11/01/2022	542.6	0.05	-69.11	6.3	21.18	0.37
Vert. Delineation	BY-AP-MW-23V	11/01/2022	1482.52	0.09	-137.27	7.36	20.16	0.99
Vert. Delineation	BY-AP-MW-25V	11/01/2022	89.23	3.42	354.94	4.22	21.7	2.08
Vert. Delineation	BY-AP-MW-5V	10/31/2022	202.71	0.96	163.94	5.9	21.74	4.39
Vert. Delineation	BY-AP-MW-7V	10/31/2022	642.34	0.03	-205.26	7.9	21.9	6.01
Vert. Delineation	BY-AP-MW-8V	10/31/2022	544.59	0.05	-47.75	6.23	21.04	5.02
Horiz. Delineation	BY-AP-MW-17H	10/31/2022	391.94	0.07	-91.35	6.34	21.57	9.51
Horiz. Delineation	BY-AP-MW-18H	10/31/2022	435.99	0.03	-71.11	6.23	20.24	3.83
Horiz. Delineation	BY-AP-MW-19H	10/31/2022	524.42	0.13	-67.42	6.1	20.51	1.45
Horiz. Delineation	BY-AP-MW-20H	10/31/2022	896.89	0.06	-76.3	6.12	20.37	1.98
Horiz. Delineation	BY-AP-MW-22H	10/31/2022	784.96	0.08	-95.44	6.46	20.62	3.49
Horiz. Delineation	BY-AP-MW-23H	11/01/2022	442.68	0.07	-56.58	6	20.03	2.5

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
10/31/2022 - 12/20/2022

Field Parameters								
Hydraulic Location	Well	Sample Date	Conductivity uS/cm	DO mg/L	ORP mv	pH_Field SU	Field Temperature C	Turbidity NTU
Horiz. Delineation	BY-AP-MW-24H	11/02/2022	894.07	0.13	-61.31	6.05	21.31	2.66
Horiz. Delineation	BY-AP-MW-25H	10/31/2022	216.38	0.88	306.44	5.11	22.42	0.74

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Upgradient	BY-UP-MW-1	11/01/2022	0.0501 J	1.01	2.37	<0.06	4.6	11.3
Upgradient	BY-UP-MW-2	11/01/2022	<0.03	1.23	2.22	<0.06	4.42	7.11
Upgradient	BY-UP-MW-3	11/01/2022	<0.03	1.94	3.09	<0.06	4.12	6.83
Upgradient	BY-UP-MW-4	11/01/2022	<0.03	1.59	3.3	<0.06	4.74	4.59
Downgradient	BY-AP-MW-1	11/02/2022	1.92	38.9	25.1	0.0665 J	5.56	12.1
Downgradient	BY-AP-MW-10	11/02/2022	2.02	59.5	25.1	<0.06	6.39	10.2
Downgradient	BY-AP-MW-11	11/01/2022	0.0727 J	26.4	22.7	0.0612 J	6.28	47.7
Downgradient	BY-AP-MW-12	11/01/2022	0.0777 J	22.5	24.9	0.0695 J	6.21	15.3
Downgradient	BY-AP-MW-13	11/01/2022	0.0445 J	25.2	40.2	0.13	6.09	86.9
Downgradient	BY-AP-MW-14	11/01/2022	0.0519 J	10.9	53.1	0.0685 J	5.93	86.1
Downgradient	BY-AP-MW-15	11/01/2022	0.0712 J	6.57	99.1	0.177	6.64	4.24
Downgradient	BY-AP-MW-16	11/01/2022	2.24	11.1	23.5	0.112 J	5.78	7.46
Downgradient	BY-AP-MW-2	11/02/2022	<0.03	2.03	8.49	0.0711 J	5.68	1.17 J
Downgradient	BY-AP-MW-3	11/01/2022	<0.03	0.926	8.88	<0.06	5.01	1.66 J
Downgradient	BY-AP-MW-4	10/31/2022	<0.03	3.38	32.8	<0.06	4.65	1.02 J
Downgradient	BY-AP-MW-5	10/31/2022	0.0515 J	10.1	17.5	0.0614 J	5.99	15.2
Downgradient	BY-AP-MW-6	10/31/2022	<0.03	1.63	7.48	<0.06	4.9	1.22 J
Downgradient	BY-AP-MW-7	10/31/2022	0.28	2.36	95.7	0.381	7.07	33.8
Downgradient	BY-AP-MW-8	11/02/2022	1.59	31	26.6	<0.06	6.28	7.58
Downgradient	BY-AP-MW-9	10/31/2022	2.3	38.1	25.1	0.0788 J	6.26	11.4
Vert. Delineation	BY-AP-MW-10V	11/01/2022	1	69.9	22.1	0.0602 J	6.41	11.4

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
10/31/2022 - 12/20/2022

EPA Appendix III Set								
Hydraulic Location	Well	Sample Date	Boron mg/L	Calcium mg/L	Chloride mg/L	Fluoride mg/L	pH_Field SU	Sulfate mg/L
Vert. Delineation	BY-AP-MW-12V	11/01/2022	0.0922 J	20.7	26.9	0.13	6.32	12.3
Vert. Delineation	BY-AP-MW-13V	11/01/2022	0.0803 J	12.2	62.7	0.069 J	6.29	136
Vert. Delineation	BY-AP-MW-14V	11/01/2022	0.361	5.52	175	0.275	6.9	10.7
Vert. Delineation	BY-AP-MW-15V	11/02/2022	0.033 J	7.84	179	<0.06	5.38	6.26
Vert. Delineation	BY-AP-MW-16V	11/01/2022	<0.03	2.24	70.9	<0.06	5.13	29.9
Vert. Delineation	BY-AP-MW-17V	10/31/2022	0.198	58.5	914	0.118 J	6.4	55.8
Vert. Delineation	BY-AP-MW-1V	11/01/2022	0.0424 J	3.5	98.5	<0.06	5.21	23
Vert. Delineation	BY-AP-MW-20V	11/01/2022	0.0866 J	13.8	28.4	0.0715 J	6.3	6.08
Vert. Delineation	BY-AP-MW-23V	11/01/2022	0.345	3.65	365	0.222	7.36	11
Vert. Delineation	BY-AP-MW-25V	11/01/2022	<0.03	0.609	3.52	<0.06	4.22	1.85 J
Vert. Delineation	BY-AP-MW-5V	10/31/2022	0.0652 J	2.16	35.3	<0.06	5.9	7.44
Vert. Delineation	BY-AP-MW-7V	10/31/2022	0.329	3.61	129	0.428	7.9	6.09
Vert. Delineation	BY-AP-MW-8V	10/31/2022	0.186	23.9	27.1	0.0963 J	6.23	10
Horiz. Delineation	BY-AP-MW-17H	10/31/2022	0.064 J	11.2	17.1	0.135	6.34	13.2
Horiz. Delineation	BY-AP-MW-18H	10/31/2022	1.65	31.3	27.1	0.148	6.23	12.1
Horiz. Delineation	BY-AP-MW-19H	10/31/2022	0.63	31.7	15.2	<0.06	6.1	23
Horiz. Delineation	BY-AP-MW-20H	10/31/2022	0.06 J	28	35.3	0.0822 J	6.12	103
Horiz. Delineation	BY-AP-MW-22H	10/31/2022	0.0346 J	13.8	61.6	0.257	6.46	110
Horiz. Delineation	BY-AP-MW-23H	11/01/2022	0.0382 J	23.9	7.96	<0.06	6	5.37
Horiz. Delineation	BY-AP-MW-24H	11/02/2022	0.337	17.6	45.4	0.131	6.05	19.9
Horiz. Delineation	BY-AP-MW-25H	10/31/2022	<0.03	0.951	5.67	<0.06	5.11	4.57

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Upgradient	BY-UP-MW-1	11/01/2022	<0.000508	0.000345	0.0804	<0.000406	<6.8e-005	0.000212 J	0.00394	<0.06
Upgradient	BY-UP-MW-2	11/01/2022	<0.000508	0.000379	0.145	0.000429 J	<6.8e-005	0.00209	0.0016	<0.06
Upgradient	BY-UP-MW-3	11/01/2022	<0.000508	<8.1e-005	0.0963	<0.000406	<6.8e-005	0.0012	0.00143	<0.06
Upgradient	BY-UP-MW-4	11/01/2022	<0.000508	0.000115 J	0.11	<0.000406	<6.8e-005	0.00111	0.00169	<0.06
Downgradient	BY-AP-MW-1	11/02/2022	<0.000508	0.0682	0.279	<0.000406	<6.8e-005	0.00371	0.00102	0.0665 J
Downgradient	BY-AP-MW-10	11/02/2022	<0.000508	0.0742	0.0617	<0.000406	<6.8e-005	0.000642 J	0.000605	<0.06
Downgradient	BY-AP-MW-11	11/01/2022	<0.000508	0.0148	0.078	<0.000406	<6.8e-005	0.00316	0.00105	0.0612 J
Downgradient	BY-AP-MW-12	11/01/2022	<0.000508	0.0226	0.079	<0.000406	<6.8e-005	0.00338	0.00406	0.0695 J
Downgradient	BY-AP-MW-13	11/01/2022	<0.000508	0.0208	0.0783	<0.000406	<6.8e-005	0.00772	0.00274	0.13
Downgradient	BY-AP-MW-14	11/01/2022	<0.000508	0.0174	0.0681	<0.000406	<6.8e-005	0.00317	0.0012	0.0685 J
Downgradient	BY-AP-MW-15	11/01/2022	<0.000508	0.0177	0.0745	<0.000406	<6.8e-005	0.000361 J	0.0357	0.177
Downgradient	BY-AP-MW-16	11/01/2022	<0.000508	0.0161	0.0905	<0.000406	<6.8e-005	0.00122	0.00812	0.112 J
Downgradient	BY-AP-MW-2	11/02/2022	<0.000508	0.00151	0.0201	<0.000406	<6.8e-005	0.000206 J	0.00497	0.0711 J
Downgradient	BY-AP-MW-3	11/01/2022	<0.000508	0.000102 J	0.0289	<0.000406	<6.8e-005	0.00107	0.000152 J	<0.06
Downgradient	BY-AP-MW-4	10/31/2022	<0.000508	9.89e-005 J	0.118	0.000451 J	0.000102 J	0.00057 J	0.00319	<0.06
Downgradient	BY-AP-MW-5	10/31/2022	<0.000508	0.0292	0.105	<0.000406	<6.8e-005	0.00096 J	0.0015	0.0614 J
Downgradient	BY-AP-MW-6	10/31/2022	<0.000508	<8.1e-005	0.0263	<0.000406	6.82e-005 J	0.000281 J	0.000588	<0.06
Downgradient	BY-AP-MW-7	10/31/2022	<0.000508	0.00873	0.0188	<0.000406	<6.8e-005	0.000263 J	0.00239	0.381
Downgradient	BY-AP-MW-8	11/02/2022	<0.000508	0.0415	0.149	<0.000406	<6.8e-005	0.001 J	0.00059	<0.06

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Upgradient	BY-UP-MW-1	11/01/2022	0.00017 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.11
Upgradient	BY-UP-MW-2	11/01/2022	0.000411	<0.007105	<0.0003	<0.000102	0.000558 J	<6.8e-005	1
Upgradient	BY-UP-MW-3	11/01/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.53 U
Upgradient	BY-UP-MW-4	11/01/2022	8.6e-005 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.36
Downgradient	BY-AP-MW-1	11/02/2022	9.22e-005 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.96
Downgradient	BY-AP-MW-10	11/02/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.886 U
Downgradient	BY-AP-MW-11	11/01/2022	7.77e-005 J	0.0182 J	<0.0003	0.000972	<0.000508	<6.8e-005	1.03
Downgradient	BY-AP-MW-12	11/01/2022	<6.8e-005	<0.007105	<0.0003	0.000942	<0.000508	<6.8e-005	0.672 U
Downgradient	BY-AP-MW-13	11/01/2022	0.000151 J	<0.007105	<0.0003	0.00585	0.000611 J	<6.8e-005	0.569 U
Downgradient	BY-AP-MW-14	11/01/2022	8.29e-005 J	<0.007105	<0.0003	0.000643	<0.000508	<6.8e-005	0.528 U
Downgradient	BY-AP-MW-15	11/01/2022	<6.8e-005	<0.007105	<0.0003	0.00173	<0.000508	<6.8e-005	1.15
Downgradient	BY-AP-MW-16	11/01/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.09
Downgradient	BY-AP-MW-2	11/02/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.366 U
Downgradient	BY-AP-MW-3	11/01/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.505 U
Downgradient	BY-AP-MW-4	10/31/2022	0.000144 J	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.927
Downgradient	BY-AP-MW-5	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000344	<0.000508	<6.8e-005	0.75 U
Downgradient	BY-AP-MW-6	10/31/2022	0.00148	<0.007105	<0.0003	0.000122 J	<0.000508	<6.8e-005	0.925
Downgradient	BY-AP-MW-7	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.00289	<0.000508	<6.8e-005	0.932
Downgradient	BY-AP-MW-8	11/02/2022	<6.8e-005	<0.007105	<0.0003	0.000232	<0.000508	<6.8e-005	0.503 U

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Downgradient	BY-AP-MW-9	10/31/2022	<0.000508	0.023	0.111	<0.000406	<6.8e-005	0.000692 J	0.000698	0.0788 J
Vert. Delineation	BY-AP-MW-10V	11/01/2022	<0.000508	0.000299	0.199	<0.000406	<6.8e-005	0.000597 J	0.000667	0.0602 J
Vert. Delineation	BY-AP-MW-12V	11/01/2022	<0.000508	0.0241	0.101	<0.000406	<6.8e-005	0.001 J	0.00239	0.13
Vert. Delineation	BY-AP-MW-13V	11/01/2022	<0.000508	0.00887	0.0987	<0.000406	<6.8e-005	0.00391	0.00112	0.069 J
Vert. Delineation	BY-AP-MW-14V	11/01/2022	<0.000508	0.0057	0.0617	<0.000406	<6.8e-005	0.000613 J	0.00405	0.275
Vert. Delineation	BY-AP-MW-15V	11/02/2022	<0.000508	0.0403	0.153	<0.000406	0.0001 J	<0.000203	0.0748	<0.06
Vert. Delineation	BY-AP-MW-16V	11/01/2022	<0.000508	0.00102	0.0656	<0.000406	6.97e-005 J	0.000275 J	0.0185	<0.06
Vert. Delineation	BY-AP-MW-17V	10/31/2022	<0.000508	0.00144	0.804	<0.000406	<6.8e-005	0.000316 J	0.0967	0.118 J
Vert. Delineation	BY-AP-MW-1V	11/01/2022	<0.000508	0.000464	0.0843	<0.000406	7.15e-005 J	0.000558 J	0.00928	<0.06
Vert. Delineation	BY-AP-MW-20V	11/01/2022	<0.000508	0.0186	0.0871	<0.000406	<6.8e-005	0.000578 J	0.0309	0.0715 J
Vert. Delineation	BY-AP-MW-23V	11/01/2022	<0.000508	0.00195	0.036	<0.000406	<6.8e-005	<0.000203	0.000236	0.222
Vert. Delineation	BY-AP-MW-25V	11/01/2022	<0.000508	<8.1e-005	0.0106	<0.000406	<6.8e-005	0.00131	0.000337	<0.06
Vert. Delineation	BY-AP-MW-5V	10/31/2022	<0.000508	0.000618	0.0514	<0.000406	<6.8e-005	0.001 J	9.47e-005 J	<0.06
Vert. Delineation	BY-AP-MW-7V	10/31/2022	<0.000508	0.000983	0.0179	<0.000406	<6.8e-005	0.000391 J	7.79e-005 J	0.428
Vert. Delineation	BY-AP-MW-8V	10/31/2022	<0.000508	0.00136	0.277	<0.000406	<6.8e-005	0.000756 J	0.000614	0.0963 J
Horiz. Delineation	BY-AP-MW-17H	10/31/2022	<0.000508	0.0281	0.116	<0.000406	<6.8e-005	0.000446 J	0.00156	0.135
Horiz. Delineation	BY-AP-MW-18H	10/31/2022	<0.000508	0.00934	0.119	<0.000406	<6.8e-005	0.000706 J	0.000688	0.148
Horiz. Delineation	BY-AP-MW-19H	10/31/2022	<0.000508	0.000896	0.123	<0.000406	<6.8e-005	0.000431 J	0.00053	<0.06
Horiz. Delineation	BY-AP-MW-20H	10/31/2022	<0.000508	0.0131	0.0954	<0.000406	<6.8e-005	0.00246	0.00455	0.0822 J
Horiz. Delineation	BY-AP-MW-22H	10/31/2022	<0.000508	0.0183	0.2	<0.000406	<6.8e-005	0.000493 J	0.00274	0.257

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Downgradient	BY-AP-MW-9	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000157 J	<0.000508	<6.8e-005	1.64
Vert. Delineation	BY-AP-MW-10V	11/01/2022	<6.8e-005	<0.007105	<0.0003	0.000103 J	<0.000508	<6.8e-005	1.34
Vert. Delineation	BY-AP-MW-12V	11/01/2022	<6.8e-005	<0.007105	<0.0003	0.00112	<0.000508	<6.8e-005	0.816 U
Vert. Delineation	BY-AP-MW-13V	11/01/2022	<6.8e-005	0.0331	<0.0003	0.000573	<0.000508	<6.8e-005	0.933 U
Vert. Delineation	BY-AP-MW-14V	11/01/2022	<6.8e-005	<0.007105	<0.0003	0.00119	<0.000508	<6.8e-005	1.38
Vert. Delineation	BY-AP-MW-15V	11/02/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	0.000133 J	1.46
Vert. Delineation	BY-AP-MW-16V	11/01/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	0.000112 J	0.705 U
Vert. Delineation	BY-AP-MW-17V	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000535	<0.000508	0.000166 J	5.26
Vert. Delineation	BY-AP-MW-1V	11/01/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	1.35
Vert. Delineation	BY-AP-MW-20V	11/01/2022	<6.8e-005	<0.007105	<0.0003	0.00138	<0.000508	<6.8e-005	0.873
Vert. Delineation	BY-AP-MW-23V	11/01/2022	<6.8e-005	<0.007105	<0.0003	0.000634	<0.000508	<6.8e-005	0.656 U
Vert. Delineation	BY-AP-MW-25V	11/01/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.545 U
Vert. Delineation	BY-AP-MW-5V	10/31/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.7 U
Vert. Delineation	BY-AP-MW-7V	10/31/2022	0.000114 J	<0.007105	<0.0003	0.00124	<0.000508	<6.8e-005	0.332 U
Vert. Delineation	BY-AP-MW-8V	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000222	<0.000508	<6.8e-005	1.12
Horiz. Delineation	BY-AP-MW-17H	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000432	<0.000508	<6.8e-005	0.928 U
Horiz. Delineation	BY-AP-MW-18H	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000165 J	<0.000508	<6.8e-005	0.691 U
Horiz. Delineation	BY-AP-MW-19H	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000139 J	<0.000508	<6.8e-005	1.11
Horiz. Delineation	BY-AP-MW-20H	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000556	<0.000508	<6.8e-005	1.15
Horiz. Delineation	BY-AP-MW-22H	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.00132	<0.000508	<6.8e-005	0.454 U

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

EPA Appendix IV Set										
Hydraulic Location	Well	Sample Date	Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Cadmium mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L
Horiz. Delineation	BY-AP-MW-23H	11/01/2022	<0.000508	0.00463	0.171	<0.000406	<6.8e-005	0.000394 J	0.00076	<0.06
Horiz. Delineation	BY-AP-MW-24H	11/02/2022	<0.000508	0.0664	0.23	<0.000406	<6.8e-005	0.000799 J	0.00575	0.131
Horiz. Delineation	BY-AP-MW-25H	10/31/2022	<0.000508	0.000176 J	0.0198	<0.000406	<6.8e-005	0.00111	0.00135	<0.06

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

EPA Appendix IV Set									
Hydraulic Location	Well	Sample Date	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Thallium mg/L	Combined Radium 226 + 228 pCi/L
Horiz. Delineation	BY-AP-MW-23H	11/01/2022	<6.8e-005	<0.007105	<0.0003	<0.000102	<0.000508	<6.8e-005	0.583 U
Horiz. Delineation	BY-AP-MW-24H	11/02/2022	<6.8e-005	<0.007105	<0.0003	0.00104	<0.000508	<6.8e-005	1.05
Horiz. Delineation	BY-AP-MW-25H	10/31/2022	<6.8e-005	<0.007105	<0.0003	0.000107 J	<0.000508	<6.8e-005	0.793 U

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L
Upgradient	BY-UP-MW-1	11/01/2022	<0.2	11.3	0.0636	1.01	3.82	0.46 J	1.86	0.133
Upgradient	BY-UP-MW-2	11/01/2022	1.62	7.11	0.349	1.23	0.948	0.832	2.35	0.022
Upgradient	BY-UP-MW-3	11/01/2022	1.84	6.83	0.0454	1.94	0.033 J	0.89	2	0.0185
Upgradient	BY-UP-MW-4	11/01/2022	2.01	4.59	0.138	1.59	0.0665	0.948	1.89	0.0166
Downgradient	BY-AP-MW-1	11/02/2022	0.384	12.1	0.0753	38.9	134	2.16	12.3	0.871
Downgradient	BY-AP-MW-10	11/02/2022	0.341	10.2	<0.00609	59.5	77	1.59	15.7	1.68
Downgradient	BY-AP-MW-11	11/01/2022	0.425	47.7	0.0399	26.4	72.1	6.01	14	0.594
Downgradient	BY-AP-MW-12	11/01/2022	0.353	15.3	0.0264	22.5	72.8	2.89	16.3	0.78
Downgradient	BY-AP-MW-13	11/01/2022	0.22 J	86.9	0.0627	25.2	40.1	2.34	6.96	0.439
Downgradient	BY-AP-MW-14	11/01/2022	0.2 J	86.1	0.0577	10.9	39.6	2.55	6.59	0.323
Downgradient	BY-AP-MW-15	11/01/2022	0.392	4.24	<0.00609	6.57	133	2.88	5.18	0.694
Downgradient	BY-AP-MW-16	11/01/2022	0.409	7.46	0.0119	11.1	152	2.24	6.51	0.594
Downgradient	BY-AP-MW-2	11/02/2022	<0.2	1.17 J	0.0121	2.03	0.237	0.928	1.34	0.233
Downgradient	BY-AP-MW-3	11/01/2022	0.286 J	1.66 J	0.0373	0.926	0.0914	0.945	0.642	0.00792
Downgradient	BY-AP-MW-4	10/31/2022	<0.2	1.02 J	0.0352	3.38	0.0272 J	1.95	2.79	0.022
Downgradient	BY-AP-MW-5	10/31/2022	0.325	15.2	0.00629 J	10.1	49.9	1.33	3.41	0.435
Downgradient	BY-AP-MW-6	10/31/2022	<0.2	1.22 J	<0.00609	1.63	<0.00812	1.08	1.18	0.00468
Downgradient	BY-AP-MW-7	10/31/2022	<0.2	33.8	0.00743 J	2.36	5.95	1.23	1.72	0.0558
Downgradient	BY-AP-MW-8	11/02/2022	0.319	7.58	<0.00609	31	87.1	0.728	9.67	1.9
Downgradient	BY-AP-MW-9	10/31/2022	0.373	11.4	<0.00609	38.1	87.1	1.35	11.8	2.1

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L
Upgradient	BY-UP-MW-1	11/01/2022	2.42	6.66	3.11	6.18	3.9	NC	3.9	0
Upgradient	BY-UP-MW-2	11/01/2022	2.09	8.9	4.16	2.19	1.58	NC	1.58	0
Upgradient	BY-UP-MW-3	11/01/2022	3.02	8.62	4.03	2 J	1.18	NC	1.18	0
Upgradient	BY-UP-MW-4	11/01/2022	2.82	9.37	4.38	1.99 J	1.52	NC	1.52	0
Downgradient	BY-AP-MW-1	11/02/2022	24.9	24	11.2	21.8	302	NC	302	0
Downgradient	BY-AP-MW-10	11/02/2022	26.1	25	11.7	26.9	244	NC	244	0
Downgradient	BY-AP-MW-11	11/01/2022	50.6	16.7	7.8	30.8	219	NC	219	0
Downgradient	BY-AP-MW-12	11/01/2022	45.5	16.7	7.79	23	200	NC	200	0
Downgradient	BY-AP-MW-13	11/01/2022	53.2	16.5	7.72	27.9	154	NC	154	0
Downgradient	BY-AP-MW-14	11/01/2022	106	19.9	9.28	18.8	172	NC	172	0
Downgradient	BY-AP-MW-15	11/01/2022	52.1	13.1	6.12	9.66	50.7	NC	50.7	0
Downgradient	BY-AP-MW-16	11/01/2022	25.8	25.3	11.8	31.1	194	NC	194	0
Downgradient	BY-AP-MW-2	11/02/2022	4.57	16.3	7.61	1.66 J	9.44	NC	9.44	0
Downgradient	BY-AP-MW-3	11/01/2022	5.13	14.9	6.96	1.96 J	4.42	NC	4.42	0
Downgradient	BY-AP-MW-4	10/31/2022	11.2	14.8	6.91	2.3	3.12	NC	3.12	0
Downgradient	BY-AP-MW-5	10/31/2022	15.5	25.9	12.1	16.3	93.2	NC	93.2	0
Downgradient	BY-AP-MW-6	10/31/2022	7.32	13	6.09	3.72	12.3	NC	12.3	0
Downgradient	BY-AP-MW-7	10/31/2022	112	13.2	6.17	6.53	116	NC	116	0
Downgradient	BY-AP-MW-8	11/02/2022	20.1	29.1	13.6	25.5	160	NC	160	0
Downgradient	BY-AP-MW-9	10/31/2022	20.5	21.2	9.9	28.7	171	NC	171	0

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Chloride mg/L
Upgradient	BY-UP-MW-1	11/01/2022	2.37
Upgradient	BY-UP-MW-2	11/01/2022	2.22
Upgradient	BY-UP-MW-3	11/01/2022	3.09
Upgradient	BY-UP-MW-4	11/01/2022	3.3
Downgradient	BY-AP-MW-1	11/02/2022	25.1
Downgradient	BY-AP-MW-10	11/02/2022	25.1
Downgradient	BY-AP-MW-11	11/01/2022	22.7
Downgradient	BY-AP-MW-12	11/01/2022	24.9
Downgradient	BY-AP-MW-13	11/01/2022	40.2
Downgradient	BY-AP-MW-14	11/01/2022	53.1
Downgradient	BY-AP-MW-15	11/01/2022	99.1
Downgradient	BY-AP-MW-16	11/01/2022	23.5
Downgradient	BY-AP-MW-2	11/02/2022	8.49
Downgradient	BY-AP-MW-3	11/01/2022	8.88
Downgradient	BY-AP-MW-4	10/31/2022	32.8
Downgradient	BY-AP-MW-5	10/31/2022	17.5
Downgradient	BY-AP-MW-6	10/31/2022	7.48
Downgradient	BY-AP-MW-7	10/31/2022	95.7
Downgradient	BY-AP-MW-8	11/02/2022	26.6
Downgradient	BY-AP-MW-9	10/31/2022	25.1

Notes:

- "J" indicates the result was detected above the MDL but below the PQL
- "<" indicates the result was not detected above the MDL and is considered a non-detect.
- U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
- DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
- mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
- NC = value not detected with alkalinity calculation

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L
Vert. Delineation	BY-AP-MW-10V	11/01/2022	0.366	11.4	<0.00609	69.9	107	2.18	12.1	0.843
Vert. Delineation	BY-AP-MW-12V	11/01/2022	0.39	12.3	0.00682 J	20.7	95.2	2.62	14.3	1.23
Vert. Delineation	BY-AP-MW-13V	11/01/2022	0.274 J	136	0.0107	12.2	53.8	7	6.79	0.783
Vert. Delineation	BY-AP-MW-14V	11/01/2022	0.241 J	10.7	0.0173	5.52	29.4	2.89	3.04	0.323
Vert. Delineation	BY-AP-MW-15V	11/02/2022	0.268 J	6.26	0.00648 J	7.84	53.2	3.2	5.19	1.05
Vert. Delineation	BY-AP-MW-16V	11/01/2022	<0.2	29.9	0.00898 J	2.24	4.85	1.99	2.08	0.197
Vert. Delineation	BY-AP-MW-17V	10/31/2022	<0.2	55.8	0.0298	58.5	0.631	7.97	40.6	3.53
Vert. Delineation	BY-AP-MW-1V	11/01/2022	<0.2	23	0.0179	3.5	0.309	2.54	2.2	0.13
Vert. Delineation	BY-AP-MW-20V	11/01/2022	0.348	6.08	0.0129	13.8	92.9	2.2	7.95	2.11
Vert. Delineation	BY-AP-MW-23V	11/01/2022	<0.2	11	0.00929 J	3.65	1.75	3.35	2.59	0.0645
Vert. Delineation	BY-AP-MW-25V	11/01/2022	<0.2	1.85 J	0.0103	0.609	0.0384 J	0.804	0.376 J	0.00491
Vert. Delineation	BY-AP-MW-5V	10/31/2022	<0.2	7.44	0.00779 J	2.16	1.44	1.57	1.53	0.00377
Vert. Delineation	BY-AP-MW-7V	10/31/2022	<0.2	6.09	0.0635	3.61	2.8	0.911	0.704	0.0449
Vert. Delineation	BY-AP-MW-8V	10/31/2022	0.328	10	0.00631 J	23.9	70.1	2.46	13.8	0.669
Horiz. Delineation	BY-AP-MW-17H	10/31/2022	0.348	13.2	0.0434	11.2	69.1	1.42	4.91	0.317
Horiz. Delineation	BY-AP-MW-18H	10/31/2022	0.358	12.1	0.0124	31.3	87.7	1.06	10.9	1.56
Horiz. Delineation	BY-AP-MW-19H	10/31/2022	0.306	23	0.0149	31.7	61.2	1.35	6.87	1.71
Horiz. Delineation	BY-AP-MW-20H	10/31/2022	0.325	103	0.0121	28	53.5	3.44	17.3	0.51
Horiz. Delineation	BY-AP-MW-22H	10/31/2022	0.329	110	0.00934 J	13.8	79.1	1.93	13	0.529
Horiz. Delineation	BY-AP-MW-23H	11/01/2022	0.281 J	5.37	0.00952 J	23.9	63.6	1.11	6.68	0.941

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L
Vert. Delineation	BY-AP-MW-10V	11/01/2022	27.3	31.2	14.6	23.1	264	NC	264	0
Vert. Delineation	BY-AP-MW-12V	11/01/2022	49.7	14.6	6.84	22.4	194	NC	194	0
Vert. Delineation	BY-AP-MW-13V	11/01/2022	80.1	14.4	6.74	21.4	146	NC	146	0
Vert. Delineation	BY-AP-MW-14V	11/01/2022	206	14.1	6.61	9.62	152	NC	152	0
Vert. Delineation	BY-AP-MW-15V	11/02/2022	76.3	17.1	7.97	5.73	28.7	NC	28.7	0
Vert. Delineation	BY-AP-MW-16V	11/01/2022	57.2	13.4	6.28	5.98	17.1	NC	17.1	0
Vert. Delineation	BY-AP-MW-17V	10/31/2022	471	12.3	5.76	4.7	109	NC	109	0
Vert. Delineation	BY-AP-MW-1V	11/01/2022	80.6	14.7	6.85	4.61	15.2	NC	15.2	0
Vert. Delineation	BY-AP-MW-20V	11/01/2022	44.7	14	6.56	23.6	149	NC	149	0
Vert. Delineation	BY-AP-MW-23V	11/01/2022	384	14.5	6.77	11.1	202	1.84	200	0
Vert. Delineation	BY-AP-MW-25V	11/01/2022	4.85	13.7	6.41	2.34	6.34	NC	6.34	0
Vert. Delineation	BY-AP-MW-5V	10/31/2022	34.3	13.5	6.29	2.71	35	NC	35	0
Vert. Delineation	BY-AP-MW-7V	10/31/2022	134	14.7	6.87	5.36	152	3.13	149	0
Vert. Delineation	BY-AP-MW-8V	10/31/2022	36	14.6	6.82	29.8	202	NC	202	0
Horiz. Delineation	BY-AP-MW-17H	10/31/2022	17.8	16.2	7.57	12.6	113	NC	113	0
Horiz. Delineation	BY-AP-MW-18H	10/31/2022	19.1	24.8	11.6	28.8	181	NC	181	0
Horiz. Delineation	BY-AP-MW-19H	10/31/2022	16.5	24.8	11.6	18.8	159	NC	159	0
Horiz. Delineation	BY-AP-MW-20H	10/31/2022	94	16.4	7.68	29	316	NC	316	0
Horiz. Delineation	BY-AP-MW-22H	10/31/2022	89.3	19.2	8.95	20.4	184	NC	184	0
Horiz. Delineation	BY-AP-MW-23H	11/01/2022	19.2	33.8	15.8	22.8	152	NC	152	0

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Chloride mg/L
Vert. Delineation	BY-AP-MW-10V	11/01/2022	22.1
Vert. Delineation	BY-AP-MW-12V	11/01/2022	26.9
Vert. Delineation	BY-AP-MW-13V	11/01/2022	62.7
Vert. Delineation	BY-AP-MW-14V	11/01/2022	175
Vert. Delineation	BY-AP-MW-15V	11/02/2022	179
Vert. Delineation	BY-AP-MW-16V	11/01/2022	70.9
Vert. Delineation	BY-AP-MW-17V	10/31/2022	914
Vert. Delineation	BY-AP-MW-1V	11/01/2022	98.5
Vert. Delineation	BY-AP-MW-20V	11/01/2022	28.4
Vert. Delineation	BY-AP-MW-23V	11/01/2022	365
Vert. Delineation	BY-AP-MW-25V	11/01/2022	3.52
Vert. Delineation	BY-AP-MW-5V	10/31/2022	35.3
Vert. Delineation	BY-AP-MW-7V	10/31/2022	129
Vert. Delineation	BY-AP-MW-8V	10/31/2022	27.1
Horiz. Delineation	BY-AP-MW-17H	10/31/2022	17.1
Horiz. Delineation	BY-AP-MW-18H	10/31/2022	27.1
Horiz. Delineation	BY-AP-MW-19H	10/31/2022	15.2
Horiz. Delineation	BY-AP-MW-20H	10/31/2022	35.3
Horiz. Delineation	BY-AP-MW-22H	10/31/2022	61.6
Horiz. Delineation	BY-AP-MW-23H	11/01/2022	7.96

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Nitrate Nitrite mg/L as N	Sulfate mg/L	Aluminum mg/L	Calcium mg/L	Iron Total mg/L	Potassium mg/L	Magnesium Total mg/L	Manganese Total mg/L
Horiz. Delineation	BY-AP-MW-24H	11/02/2022	0.373	19.9	0.0141	17.6	114	2.48	16.4	0.211
Horiz. Delineation	BY-AP-MW-25H	10/31/2022	<0.2	4.57	0.009 J	0.951	0.0389 J	0.905	0.749	0.00344

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary Plant Barry Ash Pond 10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters										
Hydraulic Location	Well	Sample Date	Sodium mg/L	Silica mg/L	Silicon mg/L	Carbon, Total Organic mg/L	Alkalinity Total as CaCO3 mg CaCO3/L	Carbonate Alkalinity as CaCO3 mg CaCO3/L	Bicarbonate Alkalinity as CaCO3 mg CaCO3/L	Sulfide mg/L
Horiz. Delineation	BY-AP-MW-24H	11/02/2022	72.1	23.5	11	27.4	229	NC	229	0
Horiz. Delineation	BY-AP-MW-25H	10/31/2022	6.2	16.1	7.51	2.48	9.48	NC	9.47	0

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Table 7. Second Semi-Annual Monitoring Event

Analytical Results Summary
Plant Barry Ash Pond
10/31/2022 - 12/20/2022

General Chemistry and MNA Parameters			
Hydraulic Location	Well	Sample Date	Chloride mg/L
Horiz. Delineation	BY-AP-MW-24H	11/02/2022	45.4
Horiz. Delineation	BY-AP-MW-25H	10/31/2022	5.67

Notes:

1. "J" indicates the result was detected above the MDL but below the PQL
2. "<" indicates the result was not detected above the MDL and is considered a non-detect.
3. U - Radium data is a combination of radium isotopes 226 and 228. When results are reported below the MDC (Minimum Detectable Concentration), data is displayed with an accompanying U. The MDC varies depending upon the sample amount and elapsed time of the measurement.
4. DO - Dissolved Oxygen, ORP - Oxidation Reduction Potential, TDS - Total Dissolved Solids.
5. mg/L - milligrams per liter, mv - millivolts, NTU - nephelometric turbidity unit, C - celsius, SU - standard unit, uS/cm - microseimens per centimeter, pCi/L - picocuries per liter.
6. NC = value not detected with alkalinity calculation

Appendix A



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-1																		
		03/02/2016	04/19/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/13/2017	01/24/2018	05/01/2018	11/28/2018	05/29/2019	10/01/2019	03/30/2020	09/01/2020	05/12/2021	05/18/2021
Appendix III																				
Boron	mg/L	2.03	2.2	1.61	1.55	1.59	1.84	--	1.73	1.56	1.87	--	1.81	1.8	1.75	1.91	1.77	2.11	--	1.99
Calcium	mg/L	46.5	49	33.5	34.2	35.1	38.5	--	35.1	32.4	40.5	--	39.7	35.8	33.4	36.7	33.7	40.5	--	39.5
Chloride	mg/L	2.18	9.01	21	21	21.4	--	25	26	27	24	--	25	26	27.6	24.6	24.9	25.7	--	25.1
Fluoride	mg/L	0.03 J	0.052 J	0.069 J	0.043 J	<0.01	--	0.04 J	0.05 J	0.049 J	0.06 J	0.05 J	0.05 J	<0.032	0.0858 J	0.0744 J	0.0726 J	0.194	--	0.0884 J
pH_Field	SU	5.78	5.8	5.83	5.85	5.87	5.83	5.83	5.73	5.83	5.91	5.9	5.83	5.82	5.82	5.47	5.79	5.89	--	5.86
Sulfate	mg/L	0.31 J	0.335 J	0.556 J	<0.3	<0.3	--	5	6	5	4.7 J	--	<1.4	4.1 J	5.75	7.82	28.4	23.1	--	16.5
TDS	mg/L	426	442	461	456	444	422	--	442	433	456	--	416	408	403	430	419	454	--	450
Appendix IV																				
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000687 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	--	<0.000507
Arsenic	mg/L	0.076	0.0973	0.0605	0.0687	0.0701	0.0669	--	0.0672	0.0527	--	0.07	0.0777	0.0677	0.0555	0.0635	0.0557	0.0811	--	0.0687
Barium	mg/L	0.219	0.201	0.274	0.296	0.281	0.211	--	0.29	0.25	--	0.289	0.28	0.271	0.29	0.293	0.279	0.33	--	0.339
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.000406
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<6.8e-005
Chromium	mg/L	0.00591 J	0.0077 J	0.00264 J	0.00246 J	0.00248 J	0.00556 J	--	0.00269 J	0.00295 J	--	0.00278 J	0.00435 J	0.0036 J	0.00223 J	0.00236 J	0.00415 J	0.00242 J	--	0.00294
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.000996
Combined Radium 226+228	pCi/L	1 U	3.0268	1.59	2.19	--	1.23	--	1.62	1.24	--	1.96 U	1.6	1.48	2.25	2.84	2.31	1.3	0.639 U	2.99
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<6.8e-005
Lithium	mg/L	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.007105
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.000106 J
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.000507
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<6.8e-005

- Notes:
1. mg/L - Milligrams per Liter
 2. pCi/L - picocuries per Liter
 3. J - Result is an estimated value. The result is greater than or equal to the Method Detection Limit (MDL) and less than the Practical Quantitation Limit (PQL)



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-1					BY-UP-MW-1													
		11/01/2021	05/24/2022	11/02/2022	02/23/2016	04/19/2016	06/06/2016	08/30/2016	10/18/2016	01/31/2017	03/20/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/02/2018	11/27/2018	05/29/2019	10/02/2019	03/31/2020
Appendix III																				
Boron	mg/L	2.01	2.07	1.92	0.0212 J	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	0.0362 J	0.11	0.188	0.097 J	0.157
Calcium	mg/L	38.4	44.3	38.9	1.28	1.19	1.19	1.11	1.04	1.19	--	1.05	0.978	1.14	--	1.64	2.01	1.85	1.55	1.96
Chloride	mg/L	31.3	28.7	25.1	3.59	2.89	3.12	3.91	3.9	--	3.5	3.5	3.1	4	--	9.9	4.7	5.48	3.65	3.17
Fluoride	mg/L	0.181	<0.06	0.0665 J	0.03 J	0.023 J	0.062 J	0.053 J	0.042 J	--	<0.032	0.04 J	0.1	0.04 J	<0.032	0.04 J	<0.032	0.0502 J	<0.05	<0.06
pH_Field	SU	6.01	5.44	5.56	4.62	4.74	4.65	4.64	4.74	4.54	4.67	4.79	4.76	4.81	4.79	4.62	4.73	4.65	4.57	4.64
Sulfate	mg/L	11.6	21	12.1	8.59	8.27	8.66	9.74	10.2	--	8.3	6.6	7.6	8.4	--	5.9	22	23.3	17.5	24.3
TDS	mg/L	451	409	404	26.7	--	32.7	33.3	27.3	32	--	31.3	35.3	36.7	--	34	50.7	58	46	53.3
Appendix IV																				
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000925 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.0658	0.0779	0.0703	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.322	0.343	0.271	0.117	0.099	0.107	0.106	0.102	0.0944	--	0.0868	0.0799	--	0.0884	0.137	0.157	0.166	0.129	0.176
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	0.000612 J	<0.0006	<0.0006	<0.0006	--	0.00069 J	<0.0006	--	<0.0006	<0.0006	0.000856 J	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.00244	0.00238	0.00371	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.000928	0.000914	0.00102	0.0035 J	0.0038 J	0.00427 J	0.00348 J	0.00338 J	0.00308 J	--	0.00314 J	0.0036 J	--	0.00586 J	0.00702 J	0.0157	0.0109	0.0129	0.0123
Combined Radium 226+228	pCi/L	2.22	2.12	1.96	2.8971 U	1 U	0.841	1.74	1.47	0.952	--	0.768	1.04	--	0.513 U	0.916	1.37	1.57	0.905	1.77
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	7.75e-005 J	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-UP-MW-1					BY-AP-MW-2														
		09/09/2020	05/12/2021	10/19/2021	05/31/2022	11/01/2022	03/02/2016	04/19/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/12/2017	01/24/2018	05/01/2018	11/27/2018	05/29/2019	
Appendix III																					
Boron	mg/L	0.0999 J	0.0841 J	0.0708 J	0.0567 J	0.0501 J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	
Calcium	mg/L	1.43	1.34	1.17	1.13	1.01	3.86	3.22	3.17	3.07	2.91	2.94	--	2.82	2.79	2.88	--	2.82	2.8	2.82	
Chloride	mg/L	2.92	2.18	2.37	1.93	2.37	6.08	6.2	6.2	6.51	6.85	--	7.2	8.3	8.5	8.6	--	7.6	8.8	8.31	
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	0.04 J	0.038 J	0.067 J	0.05 J	<0.01	--	0.1	0.04 J	0.04 J	0.037 J	<0.032	<0.032	<0.032	<0.05	
pH_Field	SU	4.65	4.74	4.67	3.89	4.6	6.08	5.92	5.9	5.87	5.82	5.87	5.85	5.61	5.82	5.61	5.83	5.8	5.71	5.7	
Sulfate	mg/L	16.5	16.3	15.5	12.8	11.3	3.3	2.68	1.1	<0.3	<0.3	--	5	<1.4	5	<1.4	--	<1.4	<1.4	0.885 J	
TDS	mg/L	42	40.7	40	32	33.3	42	51.3	46.7	32.7	37.3	47.3	--	44	48	40.7	--	42.7	48	47.3	
Appendix IV																					
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000739 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	
Arsenic	mg/L	<0.001	0.000336	0.000346	0.000237	0.000131 J	0.00263 J	0.00247 J	0.0023 J	0.00237 J	0.00241 J	0.00185 J	--	0.00194 J	0.00175 J	--	0.00158 J	0.00166 J	0.00144 J	0.00132 J	
Barium	mg/L	0.124	0.123	0.103	0.1	0.0807	0.0285	0.0268	0.0248	0.026	0.0247	0.0228	--	0.0257	0.0219	--	0.0229	0.0279	0.0249	0.0232	
Beryllium	mg/L	<0.0006	0.000694 J	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	
Chromium	mg/L	<0.002	0.000296 J	0.000301 J	0.000231 J	0.000212 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	
Cobalt	mg/L	0.00697	0.00611	0.00517	0.00487	0.00406	0.00842 J	0.008 J	0.00796 J	0.00752 J	0.00778 J	0.00647 J	--	0.00686 J	0.00694 J	--	0.00592 J	0.00693 J	0.0066	0.00745	
Combined Radium 226+228	pCi/L	1.77	0.639 U	1.77	1.34	1.11	1 U	1 U	0.121 U	0.348 U	0.48	0.00333 U	--	0.4 U	0.083 U	--	0.404 U	0.457	0.359 U	1.18	
Lead	mg/L	<0.001	9.79e-005 J	0.000115 J	8.38e-005 J	0.00017 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	
Lithium	mg/L	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	
Molybdenum	mg/L	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-2									BY-UP-MW-2										
		10/01/2019	03/31/2020	08/31/2020	05/11/2021	05/18/2021	11/01/2021	05/24/2022	11/02/2022	02/23/2016	04/19/2016	06/07/2016	08/30/2016	10/18/2016	01/31/2017	03/20/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	
Appendix III																					
Boron	mg/L	<0.03	<0.03	<0.03	--	<0.03	<0.03	<0.03	<0.03	0.0252 J	<0.02	0.0202 J	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	
Calcium	mg/L	2.94	2.95	3	--	3.17	3.13	2.45	2.18	1.11	1.09	1.16	1.08	1.03	1.23	--	1.28	1.25	1.6	--	
Chloride	mg/L	8.19	8.48	8.3	--	7.89	8.16	9.21	8.49	3.99	4.08	4.28	4.26	4.26	--	4.1	5	3.9	4.3	--	
Fluoride	mg/L	<0.05	<0.06	<0.06	--	<0.06	<0.06	<0.06	0.0711 J	0.02 J	0.021 J	0.06 J	0.05 J	0.04 J	--	<0.032	0.04 J	0.04 J	0.043 J	0.04 J	
pH_Field	SU	4.97	5.71	5.57	--	5.83	5.2	4.78	5.68	4.79	4.84	4.81	4.76	4.84	4.6	4.71	4.8	4.72	4.71	4.67	
Sulfate	mg/L	<0.5	1.69	0.576 J	--	<0.5	1.56	0.615 J	1.17 J	7.2	7.22	7.92	8.17	7.99	--	6.1	5	5.3	4.9 J	--	
TDS	mg/L	44.7	42	45.3	--	48.7	52	40.7	41.3	30.7	--	35.3	27.3	--	32.7	--	30.7	34.7	39.3	--	
Appendix IV																					
Antimony	mg/L	<0.0008	<0.0008	<0.0008	--	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000898 J	--	<0.0006	<0.0006	--	<0.0006	
Arsenic	mg/L	0.0014 J	0.00149 J	0.00176 J	--	0.00159	0.00191	0.00114	0.00151	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	
Barium	mg/L	0.0241	0.0264	0.0275	--	0.0259	0.0247	0.0248	0.0201	0.111	0.0875	0.0979	0.108	0.103	0.109	--	0.125	0.108	--	0.153	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	--	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	0.00093 J	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	
Chromium	mg/L	<0.002	<0.002	<0.002	--	0.000394 J	0.000288 J	<0.000203	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	0.00596 J	
Cobalt	mg/L	0.00696	0.00716	0.00751	--	0.00746	0.00706	0.00621	0.00497	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	0.0021 J	
Combined Radium 226+228	pCi/L	0.284 U	0.699	0.0265 U	0.945 U	0.72 U	0.523 U	0.732 U	0.366 U	1 U	1 U	0.652	0.411 U	1	0.398 U	--	0.66	0.639	--	0.669 U	
Lead	mg/L	<0.001	<0.001	<0.001	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	
Lithium	mg/L	<0.01	<0.01	<0.01	--	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	
Molybdenum	mg/L	<0.002	<0.002	<0.002	--	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	
Selenium	mg/L	<0.002	<0.002	<0.002	--	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-UP-MW-2										BY-AP-MW-3									
		05/01/2018	11/27/2018	05/29/2019	10/02/2019	03/31/2020	09/09/2020	05/11/2021	10/19/2021	05/31/2022	11/01/2022	03/02/2016	04/19/2016	06/07/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	
Appendix III																					
Boron	mg/L	<0.02	0.0207 J	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	
Calcium	mg/L	1.58	1.49	1.59	1.7	1.43	1.5	1.39	1.32	1.24	1.16	1.11	1.01	1.06	0.978	0.906	1.04	--	0.969	0.902	
Chloride	mg/L	3.7	3.2	2.93	2.75	2.72	2.32	2.16	2.08	2.17	2.22	8.04	7.6	7.7	7.7	7.73	--	7.2	8.6	8.3	
Fluoride	mg/L	0.04 J	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.01 J	0.014 J	0.049 J	0.034 J	0.023 J	--	0.1	0.1	<0.032	
pH_Field	SU	4.61	4.72	4.58	4.43	4.6	4.67	4.29	4.6	3.31	4.42	5.14	5.06	5.13	5.11	5.05	5.14	5.13	4.85	5.15	
Sulfate	mg/L	4.2 J	3.7 J	5.94	6.04	6.83	6.08	7.92	7.48	8.09	7.11	0.79 J	0.674 J	1	0.702 J	0.739 J	--	5	<1.4	5	
TDS	mg/L	42	31.3	40	41.3	40	40.7	35.3	36	30.7	36	27.3	33.3	44	29.3	29.3	36.7	--	28	36.7	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	0.000606 J	<0.0006	<0.0006	0.000637 J	--	<0.0006	<0.0006	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000136 J	0.000122 J	8.79e-005 J	<8.1e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	
Barium	mg/L	0.167	0.158	0.172	0.183	0.171	0.172	0.165	0.145	0.153	0.146	0.0306	0.0292	0.0318	0.0324	0.0313	0.0306	--	0.0332	0.0275	
Beryllium	mg/L	<0.0006	0.000801 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	0.000413 J	0.000421 J	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00136	0.00135	0.000998 J	0.00102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	
Cobalt	mg/L	<0.002	0.00209 J	0.00248 J	0.00244 J	0.00224 J	0.00219 J	0.00194	0.00192	0.00187	0.00173	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	
Combined Radium 226+228	pCi/L	1.06	0.636	0.579 U	1.33	0.814	0.653 U	0.945 U	1.85	1.38	1	1 U	1 U	0.455	0.329 U	0.536	0.496	--	0.149 U	0.191 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000118 J	0.0001 J	7.81e-005 J	0.000411	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	
Mercury	mg/L	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000602 J	<0.000508	0.000633 J	0.000658 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-3													BY-UP-MW-3					
		09/12/2017	01/24/2018	05/01/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	05/11/2021	05/18/2021	11/01/2021	05/25/2022	11/01/2022	02/23/2016	04/19/2016	06/07/2016	08/30/2016	10/18/2016	01/31/2017
Appendix III																				
Boron	mg/L	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	--	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Calcium	mg/L	0.988	--	1.07	0.999	1.09	1.08	1.1	1.08	--	1.12	1.09	1.28	0.926	1.77	1.68	1.68	1.62	1.53	1.65
Chloride	mg/L	8.5	--	7.6	8.4	9.01	8.05	9.07	8.97	--	9.52	9.76	15.2	8.88	3.68	3.72	3.66	3.7	3.77	--
Fluoride	mg/L	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	--	<0.06	<0.06	<0.06	<0.06	0.02 J	0.016 J	0.052 J	0.038 J	0.03 J	--
pH_Field	SU	4.96	5.22	5.11	5.05	5.05	4.37	5.08	4.24	--	4.93	4.94	4.64	5.01	4.96	4.94	4.96	4.92	4.98	4.74
Sulfate	mg/L	<1.4	--	<1.4	<1.4	0.747 J	0.61 J	1.02	0.705 J	--	0.883 J	1.01	1.41 J	1.66 J	7.44	7.66	8.16	8.43	8.47	--
TDS	mg/L	35.3	--	34.7	41.3	40	36.7	37.3	39.3	--	38	35.3	50.7	40	40	32	38.7	31.3	26.7	30
Appendix IV																				
Antimony	mg/L	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	--	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000911 J
Arsenic	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<6.8e-005	<6.8e-005	<8.1e-005	0.000102 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	--	0.0317	0.0356	0.0339	0.037	0.0356	0.0393	0.038	--	0.0406	0.0371	0.0515	0.0289	0.0862	0.0718	0.0754	0.0768	0.0727	0.0698
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.000919 J	0.000932 J	0.00108	0.00107	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.000196 J	0.000156 J	0.000279	0.000143 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	--	0.543 U	0.372 U	0.591	2.31	1.52	0.478 U	0.158 U	0.521 U	0.749 U	0.688 U	1.72	0.505 U	1 U	1 U	0.342 U	0.702	0.791	0.0613 U
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-UP-MW-3															BY-AP-MW-4				
		03/20/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/01/2018	11/27/2018	05/29/2019	10/02/2019	03/31/2020	09/09/2020	05/11/2021	10/18/2021	05/31/2022	11/01/2022	03/01/2016	04/19/2016	06/07/2016	08/30/2016	
Appendix III																					
Boron	mg/L	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.02	<0.02	<0.02	<0.02	
Calcium	mg/L	--	1.58	1.55	1.71	--	1.76	1.69	1.74	1.86	1.92	1.97	2.06	2.09	1.95	1.94	1.07	0.969	1.08	0.952	
Chloride	mg/L	3.7	4.6	3.4	3.9	--	4.1	3.5	3.58	3.64	3.47	3.47	3.42	3.45	3.39	3.09	7.74	7.66	11.3	10.8	
Fluoride	mg/L	<0.032	0.1	0.1	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.02 J	0.016 J	0.047 J	0.035 J	
pH_Field	SU	4.9	4.98	4.94	4.93	4.91	4.87	4.94	4.8	4.52	4.4	4.76	4.53	4.55	3.54	4.12	5.19	5.06	4.7	4.77	
Sulfate	mg/L	7.4	6.3	7.1	7.3	--	6.9	6.5	7.81	7.62	7.98	7.13	7.73	7.36	7.18	6.83	2.58	2.3	2.58	2.81	
TDS	mg/L	--	30.7	32.7	38	--	35.3	36	37.3	36.7	39.3	42.7	44	36	31.3	36	27.3	38	48.7	32.7	
Appendix IV																					
Antimony	mg/L	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	0.000869 J	<0.0006	
Arsenic	mg/L	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	8.69e-005 J	<8.1e-005	<8.1e-005	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	--	0.0723	0.07	--	0.0747	0.0877	0.0804	0.0831	0.089	0.0927	0.0919	0.0981	0.0935	0.0993	0.0948	0.018	0.0166	0.0271	0.0312	
Beryllium	mg/L	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	
Cadmium	mg/L	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	7.25e-005 J	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	
Chromium	mg/L	--	<0.002	<0.002	--	0.00229 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00146	0.00135	0.00129	0.0012	<0.002	<0.002	<0.002	<0.002	
Cobalt	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00142	0.00146	0.00152	0.00142	<0.002	<0.002	0.00424 J	0.00262 J	
Combined Radium 226+228	pCi/L	--	0.974	0.748	--	0.558 U	0.296 U	0.357 U	0.275 U	0.458 U	0.941	1.05	0.521 U	1.75	1.67	0.53 U	1 U	1 U	0.287 U	0.585	
Lead	mg/L	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	
Lithium	mg/L	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	
Mercury	mg/L	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	
Molybdenum	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	
Selenium	mg/L	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	
Thallium	mg/L	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-4																		
		10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/12/2017	01/24/2018	05/01/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	05/11/2021	05/18/2021	11/01/2021	05/25/2022	10/31/2022	02/23/2016
Appendix III																				
Boron	mg/L	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	--	<0.03	<0.03	<0.03	<0.03	0.0257 J
Calcium	mg/L	1.17	0.946	--	0.826	0.834	0.884	--	0.921	1.01	0.622	0.645	0.898	0.566	--	0.974	0.816	1.69	3.38	1.42
Chloride	mg/L	11.1	--	11	12	12	11	--	9.2	10	8.52	7.35	9.54	7.82	--	9.53	7.99	16.1	32.8	3.5
Fluoride	mg/L	0.025 J	--	<0.032	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	--	<0.06	<0.06	<0.06	<0.06	0.02 J
pH_Field	SU	4.67	4.42	4.45	4.46	4.89	4.71	5.03	4.44	4.78	4.65	4.28	4.69	4.23	--	4.17	5.18	4.6	4.65	4.74
Sulfate	mg/L	5.06	--	3.4 J	2.7 J	1.5 J	1.9 J	--	1.4 J	2.3 J	2.83	2.09	4.12	1.83	--	4.43	3.34	1.97 J	1.02 J	7.04
TDS	mg/L	36	40.7	--	30.7	41.3	34.7	--	39.3	32	36	32	42.7	36	--	47.3	32	48.7	71.3	--
Appendix IV																				
Antimony	mg/L	<0.0006	0.00086 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	--	<0.000507	<0.000508	<0.000508	<0.000508	0.000606 J
Arsenic	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	0.000125 J	0.000203	8.52e-005 J	<8.1e-005	<0.001
Barium	mg/L	0.0443	0.0231	--	0.0241	0.0276	--	0.0293	0.0205	0.0321	0.0213	0.0207	0.0193	0.0131	--	0.0225	0.0217	0.0381	0.118	0.0973
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	0.00071 J	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.000406	<0.000406	0.000649 J	0.000451 J	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<6.8e-005	<6.8e-005	<6.8e-005	0.000166 J	<0.0002
Chromium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	0.000544 J	0.000668 J	0.000257 J	0.00057 J	<0.002
Cobalt	mg/L	0.00469 J	0.0127	--	0.00891 J	0.00217 J	--	<0.002	0.0126	0.00363 J	0.00576	<0.002	0.0205	0.00657	--	0.018	0.00478	0.00431	0.00307	<0.002
Combined Radium 226+228	pCi/L	1.85	0.25 U	--	0.391 U	0.183 U	--	0.622 U	0.0917 U	0.695	0.947	0.7	0.323 U	0.39 U	0.969 U	0.734 U	0.888 U	0.821 U	0.927	2.1138
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	0.00013 J	6.92e-005 J	0.000251	0.000144 J	<0.001
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.007105	<0.007105	<0.007105	<0.007105	<0.01
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.002
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.000507	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-UP-MW-4																			
		04/19/2016	06/06/2016	08/30/2016	10/18/2016	01/31/2017	03/20/2017	05/02/2017	06/06/2017	09/12/2017	01/23/2018	05/01/2018	11/26/2018	05/28/2019	10/02/2019	03/31/2020	09/08/2020	05/11/2021	10/18/2021	05/31/2022	
Appendix III																					
Boron	mg/L	<0.02	<0.02	<0.02	0.022 J	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	
Calcium	mg/L	1.31	1.35	1.31	1.22	1.36	--	1.24	1.28	1.47	--	1.47	1.52	1.6	1.7	1.78	1.94	1.93	2.01	2.02	
Chloride	mg/L	3.63	3.6	3.54	3.68	--	4.6	3.9	3.4	4.3	--	3.8	3.6	3.6	3.5	3.34	3.29	3.33	3.32	3.31	
Fluoride	mg/L	0.015 J	0.05 J	0.036 J	0.025 J	--	<0.032	0.1	<0.032	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06	<0.06	<0.06	<0.06	
pH_Field	SU	4.86	4.88	4.91	4.95	4.71	4.83	4.93	4.9	4.82	4.85	4.8	4.88	4.73	4.67	4.51	4.75	4.67	4.38	3.97	
Sulfate	mg/L	6.74	7.04	7.57	6.62	--	7	5.6	6.6	7.2	--	5.9	5.1	7.1	6.88	10.8	6.52	6.8	6.58	7.94	
TDS	mg/L	--	28.7	25.3	--	26	--	--	42.7	26.7	--	34.7	32.7	31.3	36	36.7	39.3	46.7	36	36.7	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	0.000928 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.0017 J	<0.001	0.000217	0.000193 J	0.000203	
Barium	mg/L	0.0802	0.0862	0.0841	0.0715	0.0825	--	0.0777	0.078	--	0.0825	0.102	0.0994	0.102	0.111	0.129	0.125	0.125	0.124	0.129	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	0.00604 J	<0.002	0.00159	0.00146	0.00104	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00137	0.00139	0.00138
Combined Radium 226+228	pCi/L	1 U	0.757	0.992	0.905	1.08	--	1.18	1.1	--	1.32 U	1.19	0.863	0.474 U	0.624 U	1.09	1.27	0.969 U	2.19	1.47	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	0.00126 J	<0.001	0.000159 J	0.00012 J	0.000173 J	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	
Mercury	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

- Notes:
 1. mg/L - Milligrams per Liter
 2. pCi/L - picocuries per Liter
 3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-5																		
		11/01/2022	03/01/2016	04/20/2016	06/07/2016	08/30/2016	10/18/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/24/2018	05/02/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	11/02/2021
Appendix III																				
Boron	mg/L	<0.03	0.0462 J	0.0719 J	0.0591 J	0.0675 J	0.0699 J	0.0518 J	--	0.0737 J	0.0518 J	0.0825 J	--	0.0603 J	0.0613 J	0.0946 J	0.103	0.0782 J	0.115	0.0755 J
Calcium	mg/L	1.6	15	14.3	14.8	13.7	13.3	13.7	--	14.3	14.7	15.1	--	14.5	13.7	14.5	13.8	14.4	13.6	16.2
Chloride	mg/L	3.3	19.7	18.9	18.5	17.9	18.2	--	22	22	21	21	--	20	21	19.7	19.8	19.8	19.1	21
Fluoride	mg/L	<0.06	0.04 J	0.043 J	0.075 J	0.057 J	0.049 J	--	0.04 J	0.05 J	0.05 J	0.06 J	0.05 J	0.05 J	<0.032	0.0923 J	0.0557 J	0.0735 J	0.0921 J	0.0964 J
pH_Field	SU	4.74	5.99	5.96	6.03	6	5.99	5.96	6.01	5.99	6.01	6	5.98	5.99	6.01	5.93	5.47	6.01	5.93	6.36
Sulfate	mg/L	4.7	<0.3	<0.3	0.583 J	<0.3	<0.3	--	<1.4	5	<1.4	<1.4	--	<1.4	2.7 J	5.51	7.4	23.7	11	15
TDS	mg/L	31.3	273	269	272	244	238	266	--	259	255	276	--	247	248	259	243	243	253	297
Appendix IV																				
Antimony	mg/L	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000765 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000508
Arsenic	mg/L	<8.1e-005	0.0277	0.0307	0.0308	0.033	0.0296	0.0264	--	0.0309	0.0283	--	0.0282	0.0315	0.0283	0.0301	0.0307	0.0329	0.0372	0.0357
Barium	mg/L	0.11	0.136	0.132	0.141	0.136	0.125	0.125	--	0.146	0.126	--	0.127	0.154	0.139	0.146	0.138	0.15	0.154	0.159
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005
Chromium	mg/L	0.000974 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00101 J
Cobalt	mg/L	0.00167	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00197
Combined Radium 226+228	pCi/L	1.36	1.67764 U	3.0801	1.5	1.17	1.93	1	--	1.48	0.915	--	1.74 U	0.58	1.43	2.16	2.14	0.754	1.1	2.06
Lead	mg/L	0.000105 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005
Lithium	mg/L	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105
Mercury	mg/L	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.000102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000124 J
Selenium	mg/L	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000508
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu

**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-6																		
		05/25/2022	10/31/2022	03/01/2016	04/19/2016	06/07/2016	08/30/2016	10/19/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/24/2018	05/02/2018	11/28/2018	05/29/2019	10/01/2019	03/31/2020	09/02/2020
Appendix III																				
Boron	mg/L	0.063 J	0.0498 J	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.02	--	<0.02	<0.02	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	14.6	10.1	1.87	1.69	1.75	1.77	1.8	1.98	--	1.97	1.98	2.14	--	2.13	1.91	1.72	1.92	1.68	1.8
Chloride	mg/L	20	17.5	5.77	5.57	5.52	5.5	5.55	--	6	6.4	5.9	6.5	--	5.5	6.2	6.15	5.99	5.94	5.94
Fluoride	mg/L	<0.06	0.0619 J	<0.01	0.016 J	0.048 J	0.034 J	0.023 J	--	0.1	<0.032	0.1	<0.032	<0.032	<0.032	<0.032	<0.05	<0.05	<0.06	<0.06
pH_Field	SU	5.99	5.99	5.59	5.55	5.43	5.39	5.31	5.26	5.32	5.35	5.32	5.29	5.32	5.33	5.46	5.31	4.7	5.22	5.16
Sulfate	mg/L	5.53	15.2	0.36 J	0.435 J	1.22	1.08	1.01	--	<1.4	1.4 J	1.5 J	1.8 J	--	<1.4	<1.4	1.17	1.04	1.21	1.02
TDS	mg/L	252	193	45.3	46	46	30	37.3	43.3	--	44.7	45.3	48.7	--	44	50.7	48.7	38	42	37.3
Appendix IV																				
Antimony	mg/L	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000852 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.0316	0.0283	0.00142 J	0.00138 J	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Barium	mg/L	0.164	0.0994	0.0278	0.0242	0.0223	0.0242	0.024	0.0248	--	0.0268	0.0256	--	0.0254	0.0276	0.0231	0.0244	0.0257	0.0244	0.0282
Beryllium	mg/L	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.0011	0.00096 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00184	0.00138	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	1.71	0.75 U	1 U	1 U	0.353 U	0.428 U	0.449 U	-0.0173 U	--	0.447	0.572	--	1.09 U	0.187 U	0.478 U	-0.276 U	0.742	0.291 U	0.241 U
Lead	mg/L	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	0.00185 J	0.00545	0.00276 J	0.00171 J
Lithium	mg/L	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000114 J	0.000369	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-7																		
		05/17/2021	11/02/2021	05/25/2022	10/31/2022	03/01/2016	04/20/2016	06/07/2016	08/31/2016	10/19/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/24/2018	05/02/2018	11/28/2018	05/29/2019	09/30/2019
Appendix III																				
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	0.0546 J	0.0472 J	0.0417 J	0.036 J	0.0386 J	0.0343 J	--	0.037 J	0.0227 J	0.0471 J	--	0.0313 J	0.0311 J	0.042 J	0.0418 J
Calcium	mg/L	1.93	1.97	1.62	1.8	7.65	7.54	7.71	8.1	8.59	8.78	--	8.85	8.99	9.64	--	9.14	9.66	8.88	9.8
Chloride	mg/L	6.26	6.4	6.63	7.48	11.2	10.8	10.8	10.8	10.8	--	13	14	14	13	--	13	13	13.3	13.1
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	0.06 J	0.078 J	0.101 J	0.086 J	0.075 J	--	0.06 J	0.08 J	0.08 J	0.07 J	0.09 J	0.08 J	0.07 J	0.0937 J	0.0925 J
pH_Field	SU	5.21	5.59	4.57	4.9	6.36	6.31	6.3	6.31	6.23	6.26	6.32	6.29	6.27	6.25	6.35	6.29	6.33	6.18	6.36
Sulfate	mg/L	0.981 J	1.37	1.27 J	1.22 J	0.3 J	0.514 J	0.971 J	0.445 J	0.366 J	--	<1.4	<1.4	<1.4	<1.4	--	<1.4	<1.4	2.77	2.51
TDS	mg/L	46.7	38	40.7	46	129	128	140	112	134	134	--	127	134	141	--	133	138	132	137
Appendix IV																				
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00107 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.000103 J	9.83e-005 J	0.000105 J	<8.1e-005	0.0166	0.02	0.0223	0.0231	0.0244	0.0197	--	0.0212	0.0203	--	0.0214	0.0218	0.0209	0.0178	0.0217
Barium	mg/L	0.0305	0.0286	0.0272	0.0248	0.0519	0.0517	0.0577	0.0614	0.0618	0.0576	--	0.0601	0.054	--	0.0568	0.063	0.0654	0.059	0.0648
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	7.34e-005 J	0.000197 J	6.82e-005 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.000313 J	0.000232 J	0.000286 J	<0.000203	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	0.00328 J	<0.002	<0.002	<0.002
Cobalt	mg/L	0.000678	0.000601	0.000938	0.000588	0.011	0.0148	0.0172	0.0175	0.0189	0.0165	--	0.0172	0.0173	--	0.0158	0.0169	0.0178	0.0197	0.0186
Combined Radium 226+228	pCi/L	1.84	0.773 U	1.06 U	0.925	1 U	1 U	0.555 U	0.284 U	0.557 U	0.0949 U	--	0.53	-0.231 U	--	0.691 U	0.535	0.62	0.244 U	0.388 U
Lead	mg/L	0.00162	0.00336	0.0112	0.00148	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	0.0108 J	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003
Molybdenum	mg/L	0.000117 J	0.00011 J	0.000325	0.000142 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-8																		
		03/30/2020	09/02/2020	05/18/2021	10/27/2021	05/24/2022	10/31/2022	03/01/2016	04/20/2016	06/07/2016	08/30/2016	10/18/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/24/2018	05/02/2018	11/27/2018
Appendix III																				
Boron	mg/L	0.0369 J	0.042 J	0.037 J	0.0427 J	0.0368 J	0.272	1.72	1.7	1.57	1.67	1.4	1.46	--	1.45	1.41	1.16	--	1.12	1.31
Calcium	mg/L	10.1	10.4	10.2	10	10.9	2.12	36.1	34.5	34.7	34.1	33.2	32.3	--	34.1	34.7	34.4	--	32.3	32.5
Chloride	mg/L	13.3	12.9	14.2	15.3	13.2	95.7	24.5	22.5	21.6	21.6	20.2	--	24	25	24	24	--	23	27
Fluoride	mg/L	0.0933 J	0.109	0.11	0.0823 J	0.0724 J	0.381	0.03 J	0.043 J	0.069 J	0.052 J	0.042 J	--	0.1	0.05 J	0.05 J	0.05 J	0.04 J	0.04 J	<0.032
pH_Field	SU	6.32	6.25	6.4	6.35	6.32	7.07	6.21	6.22	6.26	6.21	6.21	6.17	6.22	6.22	6.21	6.18	6.16	6.17	6.18
Sulfate	mg/L	4.78	3.59	4.6	5.17	7.14	33.8	<0.3	<0.3	0.504 J	<0.3	<0.3	--	<1.4	2.7 J	<1.4	<1.4	--	<1.4	<1.4
TDS	mg/L	135	129	175	123	148	299	309	324	314	308	295	303	--	300	284	325	--	306	303
Appendix IV																				
Antimony	mg/L	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00074 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008
Arsenic	mg/L	0.0215	0.0234	0.0215	0.0236	0.0195	0.00873	0.036	0.0399	0.0401	0.0387	0.0394	0.0408	--	0.0416	0.0395	--	0.0536	0.0572	0.0536
Barium	mg/L	0.059	0.0745	0.07	0.0664	0.0717	0.019	0.142	0.143	0.145	0.147	0.14	0.134	--	0.145	0.128	--	0.129	0.149	0.143
Beryllium	mg/L	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	0.00709	0.00309	0.000584 J	0.000263 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Cobalt	mg/L	0.0172	0.0197	0.0189	0.0206	0.023	0.00246	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.744	0.567	0.597 U	1.46 U	1.05 U	0.932	1 U	2.0115 U	0.853	0.669	1.32	0.801	--	0.648	0.408 U	--	0.706 U	0.572	0.687
Lead	mg/L	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001
Lithium	mg/L	0.0102 J	<0.01	0.0882	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	0.000214	0.000182 J	0.000223	0.00281	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units											BY-AP-MW-9									
		05/29/2019	09/30/2019	03/30/2020	09/02/2020	05/11/2021	10/26/2021	05/24/2022	11/02/2022	03/01/2016	04/20/2016	06/08/2016	08/31/2016	10/19/2016	02/01/2017	03/22/2017	05/03/2017	06/07/2017	09/14/2017	01/23/2018	
Appendix III																					
Boron	mg/L	1.44	1.38	1.12	1.26	0.971	0.933	1.12	1.59	1.79	2.01	2.23	2.14	2.13	2.17	--	2.28	2.25	2.41	--	
Calcium	mg/L	31.9	33	32.2	31.5	33	33.5	31.5	31	40.3	38.2	39.2	38.2	38.7	39.2	--	39.1	40.3	40.7	--	
Chloride	mg/L	27.4	25.5	22.6	22.2	21.9	21.7	25	26.6	20.4	22.7	25.3	24.4	23	--	26	26	27	24	--	
Fluoride	mg/L	0.0958 J	0.0559 J	0.0701 J	<0.06	0.094 J	<0.06	0.101 J	<0.06	0.04 J	0.052 J	0.077 J	0.056 J	0.045 J	--	0.05 J	0.06 J	0.06 J	0.07 J	0.06 J	
pH_Field	SU	6.11	6.19	6.2	5.89	6.25	6.26	5.6	6.28	6.26	6.26	6.25	6.29	6.22	6.24	6.28	6.17	6.24	6.24	6.3	
Sulfate	mg/L	6.01	5.29	33.1	15.8	35.4	25.7	9.75	7.58	<0.3	<0.3	0.51 J	<0.3	<0.3	--	<1.4	2.7 J	<1.4	<1.4	--	
TDS	mg/L	291	293	310	298	318	332	254	293	314	338	288	334	333	330	--	338	300	350	--	
Appendix IV																					
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000738 J	--	<0.0006	<0.0006	--	<0.0006	
Arsenic	mg/L	0.0482	0.0514	0.0589	0.0629	0.0659	0.0668	0.0591	0.0415	0.0322	0.0354	0.0385	0.0404	0.0412	0.0374	--	0.0444	0.0423	--	0.0435	
Barium	mg/L	0.138	0.138	0.141	0.151	0.147	0.136	0.142	0.149	0.114	0.114	0.128	0.123	0.118	0.104	--	0.126	0.111	--	0.115	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	0.00156	0.00165	0.00129	0.001 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	0.000778	0.000788	0.000666	0.000542	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	
Combined Radium 226+228	pCi/L	0.627 U	0.321 U	0.6	3.95	0.648 U	1.61	0.733 U	0.503 U	1.5514 U	1 U	0.837	0.917	1.41	0.785	--	1.33	0.758	--	1.06 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	0.000321	0.000193 J	0.000234	0.000193 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-9										BY-AP-MW-10									
		05/02/2018	11/28/2018	05/30/2019	09/30/2019	03/31/2020	09/02/2020	05/18/2021	10/27/2021	05/24/2022	10/31/2022	03/01/2016	04/20/2016	06/08/2016	08/31/2016	10/19/2016	02/01/2017	03/22/2017	05/03/2017	06/07/2017	
Appendix III																					
Boron	mg/L	2.34	2.23	2.44	2.34	2.27	2.05	2.08	2.04	2.01	2.3	1.39	1.51	1.62	1.73	1.77	1.42	--	1.52	1.52	
Calcium	mg/L	40	39.7	38.3	39.9	40.1	38	40.5	40.3	38.3	38.1	50.6	49.1	48.7	57.9	52.2	47.6	--	51.3	51.4	
Chloride	mg/L	22	23	27.3	21.7	20.6	18.5	18.3	19.1	17.3	25.1	19.6	18.8	18.6	18.5	18.7	--	21	22	22	
Fluoride	mg/L	0.05 J	0.04 J	0.0745 J	0.0679 J	0.0655 J	0.0804 J	0.0709 J	0.0803 J	<0.06	0.0788 J	0.02 J	0.034 J	0.061 J	0.04 J	0.03 J	--	0.1	0.04 J	0.04 J	
pH_Field	SU	6.31	6.32	6.14	6.07	6.31	5.97	6.3	6.13	6.03	6.26	6.33	6.31	6.34	6.35	6.35	6.27	6.29	6.23	6.27	
Sulfate	mg/L	<1.4	1.4 J	4.69	3.77	43.5	21.9	27.7	6.33	5.76	11.4	0.34 J	<0.3	0.538 J	<0.3	<0.3	--	<1.4	4.1 J	<1.4	
TDS	mg/L	333	330	316	319	330	301	314	302	268	329	326	366	314	368	381	342	--	369	340	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000743 J	--	<0.0006	<0.0006	
Arsenic	mg/L	0.0437	0.0422	0.0383	0.0391	0.0393	0.0432	0.0435	0.0468	0.0414	0.023	0.0264	0.0303	0.0306	0.0304	0.0314	0.0274	--	0.03	0.0303	
Barium	mg/L	0.125	0.119	0.119	0.117	0.119	0.124	0.125	0.117	0.122	0.111	0.0634	0.0622	0.0642	0.063	0.0577	0.0607	--	0.0665	0.0632	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	
Chromium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00078 J	0.00087 J	0.000701 J	0.000692 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	
Cobalt	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000725	0.000702	0.000753	0.000698	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	
Combined Radium 226+228	pCi/L	0.983	0.747	1.08	0.58	0.82	2.25	0.98 U	1.07 U	2.11	1.64	1 U	1 U	1.06	0.871	1.25	1	--	1.07	0.254 U	
Lead	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	
Mercury	mg/L	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	
Molybdenum	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00022	0.000214	0.00024	0.000157 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-10												BY-AP-MW-11							
		09/14/2017	01/23/2018	05/02/2018	11/28/2018	05/30/2019	09/30/2019	03/31/2020	09/01/2020	05/11/2021	10/27/2021	05/24/2022	11/02/2022	03/01/2016	04/20/2016	06/08/2016	08/31/2016	10/19/2016	02/01/2017	03/22/2017	
Appendix III																					
Boron	mg/L	1.96	--	2	2	2.11	2.02	2.12	2.02	1.99	2.39	2.34	2.07	0.0482 J	0.059 J	0.0568 J	0.0651 J	0.06 J	0.0638 J	--	
Calcium	mg/L	54.9	--	53.3	54.2	60.5	63.1	63.6	57.2	62.7	64.2	63.9	58.4	35.3	28.9	27.6	25.4	25.7	25.6	--	
Chloride	mg/L	22	--	23	25	25.9	25.7	26.1	25	27.3	27.2	30.8	25.1	21.7	20.7	20.4	20.3	20.3	--	27	
Fluoride	mg/L	0.04 J	<0.032	<0.032	<0.032	0.0573 J	<0.05	<0.06	0.0794 J	0.105	<0.06	<0.06	<0.06	0.06 J	0.073 J	0.085 J	0.064 J	0.05 J	--	0.05 J	
pH_Field	SU	6.27	6.32	6.36	6.32	6.23	6.11	6.37	6.33	6.4	5.91	5.81	6.39	6.34	6.31	6.33	6.29	6.26	6.22	6.22	
Sulfate	mg/L	<1.4	--	<1.4	<1.4	3.76	2.77	20.1	15.6	13.2	5.72	5.93	10.2	1.02	1.1	0.701 J	<0.3	<0.3	--	2.1 J	
TDS	mg/L	391	--	343	378	377	361	387	392	391	373	357	344	395	376	324	367	367	391	--	
Appendix IV																					
Antimony	mg/L	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000812 J	--	
Arsenic	mg/L	--	0.0362	0.0433	0.0536	0.0671	0.0704	0.0702	0.0763	0.0762	0.0705	0.0775	0.0721	0.01	0.0127	0.0136	0.0149	0.0149	0.0151	--	
Barium	mg/L	--	0.0673	0.0752	0.066	0.063	0.0669	0.0727	0.078	0.0757	0.0638	0.0646	0.0617	0.122	0.11	0.105	0.102	0.0953	0.0917	--	
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	
Cadmium	mg/L	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	
Chromium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000685 J	0.000724 J	0.000522 J	0.000457 J	0.00213 J	0.00214 J	0.00205 J	0.00221 J	0.00213 J	0.00228 J	--	
Cobalt	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000636	0.000645	0.000626	0.000583	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Combined Radium 226+228	pCi/L	--	0.795 U	0.405	0.609	0.0949 U	0.965	1.14	1.68	1.12 U	1.2 U	1.36 U	0.886 U	1 U	0.667	0.704	0.726	0.737	0.766	--	
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-11														BY-AP-MW-12					
		05/03/2017	06/07/2017	09/13/2017	01/23/2018	05/02/2018	11/28/2018	05/29/2019	09/30/2019	03/31/2020	09/01/2020	05/19/2021	11/02/2021	05/23/2022	11/01/2022	03/02/2016	04/20/2016	06/07/2016	06/08/2016	08/31/2016	
Appendix III																					
Boron	mg/L	0.0655 J	0.0468 J	0.0751 J	--	0.0545 J	0.0545 J	0.082 J	0.103	0.0815 J	0.104	0.0856 J	0.0691 J	0.0558 J	0.0727 J	0.0502 J	0.0672 J	--	0.0659 J	0.065 J	
Calcium	mg/L	24	25.2	25.5	--	25.2	24.6	23.9	24.6	25.1	23.9	41.5	25.8	26	26.4	21	20.1	--	20.2	19.9	
Chloride	mg/L	27	24	26	--	23	25	27.8	25	24.1	23.2	23.1	25.1	25.1	22.7	22.2	21.7	--	22	22.3	
Fluoride	mg/L	0.06 J	0.06 J	0.07 J	0.06 J	0.06 J	0.05 J	0.0759 J	0.0733 J	0.078 J	0.0841 J	0.0994 J	0.101	0.0709 J	0.0612 J	0.04 J	0.059 J	--	0.08 J	0.059 J	
pH_Field	SU	6.15	6.21	6.26	6.28	6.33	6.28	6.24	5.85	6.26	5.87	6.33	5.84	6.32	6.28	6.16	6.17	--	6.25	6.23	
Sulfate	mg/L	3.6 J	<1.4	<1.4	--	<1.4	<1.4	24.1	37.4	57.5	42.8	16.5	133	29.3	47.7	<0.3	<0.3	--	0.511 J	<0.3	
TDS	mg/L	373	367	378	--	330	357	367	399	393	399	422	390	404	419	351	353	--	330	354	
Appendix IV																					
Antimony	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	--	<0.0006	<0.0006	
Arsenic	mg/L	0.0155	0.0145	--	0.0154	0.0158	0.014	0.0132	0.0145	0.0158	0.0165	0.0166	0.0161	0.0142	0.0148	0.0215	0.0214	--	0.0221	0.0223	
Barium	mg/L	0.0951	0.0864	--	0.0868	0.0816	0.0796	0.0653	0.0759	0.0842	0.0923	0.112	0.0894	0.0691	0.078	0.0815	0.0692	--	0.0763	0.0741	
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	--	<0.0006	<0.0006	
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	--	<0.0002	<0.0002	
Chromium	mg/L	0.00229 J	0.00233 J	--	0.00248 J	0.00273 J	0.0023 J	0.00211 J	0.00228 J	0.00358 J	0.00259 J	0.00301	0.00348	0.00474	0.00316	0.0042 J	0.0034 J	--	0.00308 J	0.0032 J	
Cobalt	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00257	0.00118	0.00118	0.00105	0.00235 J	0.00212 J	--	0.00276 J	0.00261 J	
Combined Radium 226+228	pCi/L	0.515	1.04	--	1.17 U	0.505	0.232 U	0.726	0.489 U	0.462 U	0.752	1.15	0.504 U	0.452 U	1.03	1 U	1 U	1.08	--	0.528	
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000102 J	0.000126 J	0.000107 J	<6.8e-005	<0.001	<0.001	--	<0.001	<0.001	
Lithium	mg/L	<0.01	<0.01	--	<0.01	0.0384 J	0.0262	0.0321	0.0228	0.022	<0.01	0.00754 J	<0.007105	0.0269	0.016 J	<0.01	<0.01	--	<0.01	<0.01	
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	--	<0.00025	<0.00025	
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00652	0.00161	0.00149	0.000972	<0.002	<0.002	--	<0.002	<0.002	
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	--	<0.002	<0.002	
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	--	<0.0002	<0.0002	

- Notes:
1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-12																	BY-AP-MW-13	
		10/19/2016	02/01/2017	03/22/2017	05/03/2017	06/07/2017	09/13/2017	01/23/2018	05/02/2018	11/28/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	05/18/2021	11/01/2021	05/23/2022	11/01/2022	03/02/2016	04/20/2016
Appendix III																				
Boron	mg/L	0.0721 J	0.06 J	--	0.0768 J	0.0625 J	0.0926 J	--	0.064 J	0.064 J	0.0952 J	0.0967 J	0.0856 J	0.115	0.0927 J	0.0769 J	0.0626 J	0.0572 J	0.0328 J	0.0434 J
Calcium	mg/L	20.4	20.9	--	20.9	21.2	22.1	--	22.2	22.1	21.4	23.1	22.4	22.2	23.1	21.8	20.8	21.1	16.7	13.1
Chloride	mg/L	20.8	--	23	25	23	23	--	21	23	24.1	26.1	23.9	23.4	25.4	27.4	26.2	24.9	47.3	40.5
Fluoride	mg/L	0.045 J	--	0.04 J	0.06 J	0.06 J	0.07 J	0.05 J	0.06 J	0.04 J	0.0677 J	0.0682 J	0.0755 J	0.0845 J	0.0614 J	0.0928 J	0.0873 J	0.0695 J	0.05 J	0.064 J
pH_Field	SU	6.2	6.08	6.12	6.12	6.13	6.19	6.17	6.15	6.11	6.13	6	6.21	6.19	5.58	5.75	6.12	6.21	6.1	6.14
Sulfate	mg/L	<0.3	--	<1.4	2.1 J	<1.4	<1.4	--	<1.4	<1.4	7.04	35.3	35.8	32.1	25.1	27	13	18	<0.3	<0.3
TDS	mg/L	354	360	--	341	337	359	--	310	336	321	344	331	356	332	349	345	363	319	305
Appendix IV																				
Antimony	mg/L	<0.0006	0.000838 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006
Arsenic	mg/L	0.0227	0.0215	--	0.0227	0.0211	--	0.0227	0.0239	0.0216	0.0215	0.0221	0.0246	0.0246	0.0237	0.0245	0.0249	0.0222	0.0115	0.0123
Barium	mg/L	0.0727	0.0701	--	0.078	0.0682	--	0.0744	0.0814	0.0788	0.0769	0.0795	0.0851	0.0827	0.0902	0.0823	0.0802	0.0781	0.0947	0.0758
Beryllium	mg/L	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002
Chromium	mg/L	0.0035 J	0.00371 J	--	0.00369 J	0.00372 J	--	0.00605 J	0.00351 J	0.00353 J	0.00333 J	0.00325 J	0.0056 J	0.00332 J	0.00377	0.00423	0.0029	0.00338	0.00656 J	0.00661 J
Cobalt	mg/L	0.00256 J	0.00231 J	--	0.00279 J	0.00262 J	--	0.00248 J	0.00271 J	0.00274 J	0.00358 J	0.00303 J	0.00364 J	0.0031 J	0.00336	0.0037	0.00414	0.00369	<0.002	<0.002
Combined Radium 226+228	pCi/L	0.81	1.11	--	0.639	0.705	--	1.1 U	1.11	0.846	2.06	0.984	1.26	1.2	1.11	1.79	1.4	0.672 U	1 U	0.398
Lead	mg/L	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.000326	0.000292	<6.8e-005	<6.8e-005	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01
Mercury	mg/L	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025
Molybdenum	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000947	0.000985	0.00109	0.000994	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-13																			
		06/07/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/22/2017	05/03/2017	06/07/2017	09/13/2017	01/22/2018	05/02/2018	11/28/2018	05/29/2019	10/01/2019	03/31/2020	09/01/2020	05/19/2021	10/26/2021	05/24/2022	
Appendix III																					
Boron	mg/L	--	0.0391 J	0.0401 J	0.0427 J	0.034 J	--	0.0416 J	0.0277 J	0.044 J	--	0.0393 J	0.0417 J	0.0528 J	0.06 J	0.0505 J	0.0642 J	0.0604 J	0.0511 J	0.0451 J	
Calcium	mg/L	--	11.7	11.3	11.8	12.5	--	12	12.8	13.3	--	13.8	15.2	12.8	13.4	13.2	12.3	12.9	12.3	19.2	
Chloride	mg/L	--	37.2	38.2	39.4	--	49	48	49	42	--	47	43	44	39.6	44.9	39.1	46.8	38.4	38.2	
Fluoride	mg/L	--	0.082 J	0.062 J	0.049 J	--	0.05 J	0.06 J	0.07 J	0.07 J	0.06 J	0.07 J	0.05 J	0.0679 J	0.0703 J	0.0665 J	0.0757 J	0.0748 J	0.0641 J	0.0769 J	
pH_Field	SU	--	6.11	6.1	6.1	6.07	6.07	6.1	6.07	6.12	6.12	6.13	6.04	6.01	6.02	5.98	5.82	5.79	5.69	5.5	
Sulfate	mg/L	--	0.496 J	<0.3	<0.3	--	6.9	6.6	6	2.2 J	--	4.1 J	4.9 J	49.5	48.1	23.2	14.2	50.4	21	38.3	
TDS	mg/L	--	287	295	305	325	--	306	320	332	--	320	304	307	290	290	285	300	280	259	
Appendix IV																					
Antimony	mg/L	--	0.00111 J	<0.0006	<0.0006	0.000834 J	--	<0.0006	0.000857 J	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	
Arsenic	mg/L	--	0.0121	0.0127	0.0131	0.0131	--	0.014	0.0141	--	0.0149	0.0175	0.0141	0.0138	0.0144	0.0154	0.0148	0.014	0.013	0.013	
Barium	mg/L	--	0.071	0.0722	0.0707	0.0686	--	0.0756	0.0695	--	0.0688	0.0806	0.0697	0.0704	0.0686	0.0728	0.0722	0.0817	0.0667	0.0723	
Beryllium	mg/L	--	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	0.00103 J	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	
Cadmium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	0.00077 J	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	--	0.0067 J	0.00693 J	0.00732 J	0.00699 J	--	0.00712 J	0.00752 J	--	0.00729 J	0.00642 J	0.0068 J	0.00727 J	0.00764 J	0.00955 J	0.00888 J	0.00692	0.00755	0.00685	
Cobalt	mg/L	--	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00113	0.00122	0.00189	
Combined Radium 226+228	pCi/L	0.812	--	0.46 U	0.601	1.1	--	0.832	0.752	--	0.898 U	0.752	0.523	1.01	1.07	0.725	0.698	1.15	1.74	0.915 U	
Lead	mg/L	--	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	
Lithium	mg/L	--	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	
Mercury	mg/L	--	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	--	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000437	0.000432	0.00369	
Selenium	mg/L	--	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	0.000558 J	
Thallium	mg/L	--	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	0.000878 J	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-14																		
		11/01/2022	03/02/2016	04/20/2016	06/08/2016	08/30/2016	10/18/2016	01/31/2017	03/22/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/02/2018	11/27/2018	05/29/2019	10/01/2019	03/31/2020	09/02/2020	05/25/2021
Appendix III																				
Boron	mg/L	0.0445 J	0.0395 J	0.0549 J	0.0593 J	0.0534 J	0.0597 J	0.0479 J	--	0.0587 J	0.0428 J	0.0647 J	--	0.0484 J	0.0493 J	0.0682 J	0.0701 J	0.0655 J	0.0789 J	0.074 J
Calcium	mg/L	25.2	9.53	9.55	13.1	12.1	11.4	10.8	--	11.9	12.2	13.9	--	10.6	10.8	11.2	11.4	9.04	10.8	11.2
Chloride	mg/L	40.2	36.6	35.5	43.8	41.6	39.5	--	46	42	44	43	--	39	43	50.1	44.8	44.7	47.2	52.1
Fluoride	mg/L	0.13	0.07 J	0.076 J	0.105 J	0.083 J	0.067 J	--	0.06 J	0.08 J	0.077 J	0.07 J	0.08 J	0.08 J	0.06 J	0.0781 J	0.0885 J	0.0867 J	0.0957 J	0.0957 J
pH_Field	SU	6.09	6.08	6.04	6.13	6.08	6.13	6.06	6.09	5.94	6.1	6.11	6.12	6.13	6.07	6.07	6.01	5.76	5.8	5.82
Sulfate	mg/L	86.9	<0.3	<0.3	0.514 J	<0.3	<0.3	--	<1.4	1.8 J	5	<1.4	--	1.6 J	<1.4	67.6	61.6	34.7	18.5	59.2
TDS	mg/L	313	266	311	353	328	310	312	--	300	335	339	--	301	295	318	317	317	327	318
Appendix IV																				
Antimony	mg/L	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.00086 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507
Arsenic	mg/L	0.0198	0.0101	0.0119	0.0119	0.0127	0.0136	0.0124	--	0.0131	0.0129	--	0.0148	0.0156	0.0145	0.014	0.0152	0.0177	0.0174	0.0172
Barium	mg/L	0.0783	0.0491	0.049	0.0627	0.0635	0.0603	0.0533	--	0.0616	0.0585	--	0.0608	0.0614	0.0589	0.0617	0.0605	0.0619	0.0687	0.0745
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406
Cadmium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005
Chromium	mg/L	0.00677	0.00552 J	0.00572 J	0.00492 J	0.00534 J	0.00556 J	0.00514 J	--	0.00524 J	0.00541 J	--	0.00573 J	0.00534 J	0.00523 J	0.00455 J	0.00508 J	0.00463 J	0.00482 J	0.00365
Cobalt	mg/L	0.00274	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.00124
Combined Radium 226+228	pCi/L	0.569 U	1 U	1 U	0.631	0.693	0.626	0.0723 U	--	0.363 U	0.198 U	--	0.294 U	0.522	0.576	0.437 U	1.11	0.941	2.12	0.978 U
Lead	mg/L	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	7.64e-005 J
Lithium	mg/L	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.007105
Mercury	mg/L	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00585	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.000701
Selenium	mg/L	0.000693 J	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.000507
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-14					BY-AP-MW-15													
		10/27/2021	05/25/2022	11/01/2022	03/02/2016	04/19/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/13/2017	01/22/2018	05/01/2018	11/27/2018	05/29/2019	10/01/2019	04/01/2020
Appendix III																				
Boron	mg/L	0.0677 J	0.0649 J	0.0708 J	0.0447 J	0.0645 J	0.0592 J	0.0632 J	0.0637 J	0.0536 J	--	0.0775 J	0.0535 J	0.0937 J	--	0.0683 J	0.0715 J	0.116	0.116	0.1
Calcium	mg/L	11.4	11	11.9	6.61	5.97	6.36	6.28	6.57	6.77	--	6.94	6.88	7.43	--	7.42	7.58	7.22	6.9	7.32
Chloride	mg/L	42.9	45.3	53.1	20.9	19.8	24	28	21.3	--	34	33	35	36	--	42	43	47.2	56.3	54.7
Fluoride	mg/L	0.0651 J	0.0733 J	0.0685 J	0.18 J	0.21 J	0.223 J	0.196 J	0.166 J	--	0.18	0.18	0.18	0.2	0.19	0.19	0.18	0.168	0.185	0.187
pH_Field	SU	6.41	6.14	5.93	6.61	6.75	6.63	6.71	6.66	6.73	6.62	6.49	6.7	6.66	6.73	6.62	6.58	6.63	6.2	6.72
Sulfate	mg/L	98.5	105	86.1	<0.3	<0.3	0.489 J	<0.3	<0.3	--	5	<1.4	5	<1.4	--	<1.4	<1.4	3.27	1.72	7.5
TDS	mg/L	327	328	347	182	151	168	188	180	166	--	183	187	202	--	197	190	198	236	231
Appendix IV																				
Antimony	mg/L	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000746 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.0174	0.0186	0.0174	0.0128	0.0157	0.0168	0.0168	0.0178	0.0164	--	0.0172	0.0158	--	0.0173	0.0181	0.0158	0.0148	0.017	0.0183
Barium	mg/L	0.0651	0.0693	0.0617	0.0468	0.043	0.0465	0.0464	0.0481	0.0427	--	0.0473	0.0437	--	0.0501	0.0575	0.0557	0.0562	0.0628	0.0697
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	0.00401	0.00345	0.00317	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Cobalt	mg/L	0.00125	0.00117	0.0012	0.0279	0.0269	0.0293	0.0272	0.0285	0.025	--	0.0274	0.0285	--	0.0273	0.0298	0.0311	0.0343	0.0336	0.0344
Combined Radium 226+228	pCi/L	0.587 U	1.25	0.528 U	1 U	1 U	0.557	0.765	0.654	0.402 U	--	0.578	0.128 U	--	0.768 U	0.651	0.764	0.433	0.988	0.527
Lead	mg/L	8.69e-005 J	0.000102 J	8.29e-005 J	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	0.0169 J	0.0254	0.0248	0.0174 J
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.00053	0.000508	0.000452	0.00238 J	0.00203 J	<0.002	<0.002	<0.002	<0.002	--	0.00201 J	<0.002	--	0.00211 J	<0.002	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-15					BY-AP-MW-16														
		09/02/2020	05/11/2021	10/26/2021	05/25/2022	11/01/2022	03/02/2016	04/19/2016	06/08/2016	08/31/2016	10/19/2016	01/31/2017	03/21/2017	05/02/2017	06/06/2017	09/13/2017	01/23/2018	05/01/2018	11/27/2018	05/29/2019	
Appendix III																					
Boron	mg/L	0.148	0.109	0.0953 J	0.0765 J	0.0712 J	1.47	1.53	1.7	1.68	1.53	1.51	--	1.64	1.57	2.18	--	1.57	1.58	1.7	
Calcium	mg/L	7.04	6.98	6.46	6.11	6.57	14.6	13.3	13.2	11.8	12.9	13.5	--	13.5	13.6	11.8	--	14	13.3	13.4	
Chloride	mg/L	47	80	85.4	80.7	99.1	16.6	15.7	15.1	15.9	15.3	--	19	19	19	21	--	18	20	20	
Fluoride	mg/L	0.18	0.214	0.171	0.214	0.177	0.04 J	0.05 J	0.073 J	0.051 J	<0.01	--	0.04 J	0.05 J	0.053 J	0.06 J	0.05 J	0.05 J	<0.032	0.0683 J	
pH_Field	SU	6.57	6.76	6.7	6.68	6.64	5.79	5.78	5.8	5.83	5.81	5.84	5.79	5.68	5.8	5.86	5.86	5.85	5.76	5.76	
Sulfate	mg/L	7.61	7.54	26.4	1.8 J	4.24	<0.3	<0.3	0.514 J	<0.3	<0.3	--	5	<1.4	5	2.6 J	--	<1.4	<1.4	6.72	
TDS	mg/L	208	279	269	255	278	263	259	285	279	264	270	--	259	278	333	--	274	250	264	
Appendix IV																					
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	0.000769 J	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0008	<0.0008	
Arsenic	mg/L	0.0206	0.0184	0.0186	0.0183	0.0177	0.0102	0.0103	0.0105	0.0117	0.0108	0.0102	--	0.0102	0.00982	--	0.0151	0.0114	0.0108	0.0106	
Barium	mg/L	0.0736	0.0762	0.0784	0.0846	0.0774	0.0921	0.0775	0.0798	0.0801	0.0766	0.075	--	0.0761	0.07	--	0.0779	0.0877	0.0792	0.081	
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	--	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.0006	<0.0006	
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0003	<0.0003	<0.0003	<0.0003	
Chromium	mg/L	<0.002	0.000581 J	0.00052 J	0.00035 J	0.000361 J	<0.002	<0.002	<0.002	0.00215 J	<0.002	<0.002	--	<0.002	<0.002	--	0.00253 J	<0.002	<0.002	<0.002	
Cobalt	mg/L	0.0385	0.0349	0.0347	0.0358	0.0353	0.0212	0.018	0.0176	0.0134	0.0193	0.017	--	0.0166	0.0172	--	0.00621 J	0.0189	0.0182	0.0206	
Combined Radium 226+228	pCi/L	1.87	0.684 U	1.95	1.3	1.15	1 U	1 U	0.344 U	0.582	0.448	0.653	--	0.698	0.548	--	0.98 U	0.623	0.744	2.51	
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	--	<0.001	<0.001	--	<0.001	<0.001	<0.001	<0.001	
Lithium	mg/L	<0.01	0.00788 J	0.0117 J	0.0116 J	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	--	<0.01	<0.01	--	<0.01	<0.01	<0.01	<0.01	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	--	<0.00025	<0.00025	--	<0.00025	<0.00025	<0.00025	<0.0003	
Molybdenum	mg/L	0.00209 J	0.00171	0.00206	0.00214	0.00173	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	--	<0.002	<0.002	--	<0.002	<0.002	<0.002	<0.002	
Thallium	mg/L	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	--	<0.0002	<0.0002	--	<0.0002	<0.0002	<0.0002	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-16							BY-AP-MW-1V							BY-AP-MW-5V					
		10/01/2019	03/31/2020	09/02/2020	05/19/2021	11/01/2021	05/25/2022	11/01/2022	01/08/2019	10/02/2019	03/30/2020	09/01/2020	05/18/2021	11/01/2021	05/24/2022	11/01/2022	01/08/2019	10/02/2019	03/31/2020	09/01/2020	
Appendix III																					
Boron	mg/L	2.05	1.74	1.9	1.74	2.18	1.98	2.23	0.0205 J	<0.03	0.0347 J	0.0368 J	0.0334 J	<0.03	0.0333 J	0.0424 J	0.029 J	0.0336 J	0.0339 J	0.0414 J	
Calcium	mg/L	11.7	14.2	13.1	14.2	13.4	13.9	10.2	15.7	3.16	3.23	3.43	3.79	3.68	3.55	3.5	3.7	2.43	1.88	2.13	
Chloride	mg/L	20.3	20.8	20.8	21.4	22.3	20	23.5	42	60.7	69.1	69	79.5	79.4	95.1	98.5	20.9	25.8	25.8	30.6	
Fluoride	mg/L	0.0774 J	0.0602 J	<0.06	0.0793 J	0.0887 J	<0.06	0.112 J	0.0548 J	0.0595 J	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	<0.05	0.0777 J	<0.06	0.0807 J	
pH_Field	SU	5.23	5.75	5.47	5.8	5.36	5.74	5.78	6.38	5.27	5.65	5.62	5.55	5.76	4.9	5.21	6.07	5.9	6.05	5.7	
Sulfate	mg/L	3.4	17.5	13.3	3.11	11.9	6.29	7.46	20.9	10.5	11.1	13	16	20.2	21.1	23	1.75	5.8	0.98 J	1.47	
TDS	mg/L	295	276	279	274	324	299	330	192	154	160	175	189	190	176	220	76.7	98	81.3	94	
Appendix IV																					
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.00125 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.00207 J	<0.0008	<0.0008	<0.0008	
Arsenic	mg/L	0.0138	0.012	0.0137	0.0118	0.0151	0.0134	0.0161	0.00109 J	0.00157 J	0.00152 J	0.00179 J	0.00144	0.000856	0.000696	0.000468	<0.001	<0.001	<0.001	<0.001	
Barium	mg/L	0.0803	0.091	0.0954	0.102	0.0988	0.0961	0.0905	0.0826	0.0611	0.062	0.0795	0.0861	0.0731	0.0863	0.0797	0.0372	0.0338	0.0313	0.0399	
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	8.88e-005 J	<0.0003	<0.0003	<0.0003	<0.0003	
Chromium	mg/L	<0.002	<0.002	<0.002	0.00162	0.0018	0.00139	0.000918 J	<0.002	<0.002	<0.002	<0.002	0.000447 J	0.000454 J	0.000381 J	<0.000203	<0.002	<0.002	<0.002	<0.002	
Cobalt	mg/L	0.0107	0.0199	0.0192	0.0182	0.0139	0.0161	0.00812	0.00911	0.00289 J	<0.002	0.00407 J	0.00483	0.00578	0.00765	0.00928	<0.002	<0.002	<0.002	<0.002	
Combined Radium 226+228	pCi/L	0.443 U	0.341 U	2.25	0.321 U	1.28	0.927 U	1.09	1.06	1.03	0.579	0.948	0.814 U	1.3 U	2	1.35	0.298 U	0.206 U	0.024 U	0.741	
Lead	mg/L	<0.001	<0.001	<0.001	0.000191 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	
Lithium	mg/L	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	0.0219	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	<0.002	<0.002	<0.002	0.000136 J	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	0.00018 J	0.00013 J	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-5V			BY-AP-MW-7V									BY-AP-MW-8V						
		11/02/2021	05/25/2022	10/31/2022	01/09/2019	10/01/2019	12/02/2019	03/30/2020	09/02/2020	05/18/2021	10/27/2021	05/24/2022	10/31/2022	01/09/2019	10/01/2019	03/30/2020	09/02/2020	05/18/2021	10/26/2021	05/23/2022
Appendix III																				
Boron	mg/L	<0.03	<0.03	0.0625 J	0.0615 J	0.0546 J	--	0.0555 J	0.0565 J	0.0599 J	0.0546 J	0.165	0.329	0.164	0.241	0.247	0.26	0.247	0.216	0.259
Calcium	mg/L	2.11	2.62	2.16	37	18.7	--	20	13.9	14.1	17.2	8.84	3.61	27.2	24.2	24.5	23.3	26.4	25.7	24.4
Chloride	mg/L	30.5	22.6	35.3	16.9	13.2	--	15.5	14.2	19	18.9	40.4	129	21.9	22.6	22.7	22.6	22.7	23.9	22.1
Fluoride	mg/L	0.0627 J	<0.06	<0.06	0.139	0.0871 J	--	0.127	0.126	0.112	0.0795 J	0.0869 J	0.428	0.0831 J	0.0832 J	0.0935 J	0.098 J	0.0958 J	0.107	0.108 J
pH_Field	SU	6.35	5.88	5.9	7.12	6.67	6.56	6.69	6.49	6.53	6.78	6.92	7.9	6.38	6.16	6.2	5.79	6.33	6.26	6.08
Sulfate	mg/L	1.34	2.91	7.44	3.69	2	--	9.65	6.7	5.53	5.31	6.06	6.09	1.74	7	75.8	24	19.6	58.2	8.35
TDS	mg/L	77.3	75.3	115	240	182	--	204	168	192	169	228	357	276	324	328	318	331	350	331
Appendix IV																				
Antimony	mg/L	<0.000508	<0.000508	<0.000508	0.000861 J	<0.0008	--	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.00101	<8.1e-005	0.000618	<0.001	0.00278 J	--	0.005	0.0024 J	0.00242	0.0027	0.00218	0.000745	0.00121 J	0.00243 J	0.00275 J	0.00346 J	0.00398	0.0048	0.00414
Barium	mg/L	0.0368	0.0578	0.0514	0.112	0.0541	--	0.0519	0.0648	0.0805	0.0684	0.0797	0.0179	0.337	0.264	0.264	0.289	0.299	0.282	0.277
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	--	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	--	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000991 J	0.000438 J	0.000599 J	<0.002	<0.002	--	<0.002	<0.002	0.000463 J	0.000515 J	0.000317 J	0.000391 J	<0.002	<0.002	<0.002	<0.002	0.00129	0.00124	0.00119
Cobalt	mg/L	0.000132 J	0.00106	9.47e-005 J	<0.002	<0.002	--	<0.002	<0.002	0.000139 J	0.000134 J	0.00011 J	7.79e-005 J	<0.002	<0.002	<0.002	<0.002	0.000882	0.000879	0.000921
Combined Radium 226+228	pCi/L	0.158 U	1.03 U	0.7 U	0.527	1.01	--	0.604	1.12	0.199 U	0.914 U	0.619 U	0.332 U	1.69	1.66	0.787	2.89	0.975 U	1.61	1.13
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	--	<0.001	<0.001	<6.8e-005	<6.8e-005	8.13e-005 J	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	0.0662	<0.01	<0.01	<0.01	<0.01	<0.007105	0.00746 J	<0.007105	<0.007105	0.0217	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	--	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	8.05e-005 J	<0.000102	<0.000102	0.00511 J	<0.002	--	<0.002	<0.002	0.00021	0.000456	0.000705	0.00124	0.00243 J	<0.002	<0.002	<0.002	0.000363	0.000276	0.000286
Selenium	mg/L	<0.000508	<0.000508	<0.000508	<0.002	<0.002	--	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	--	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-10V									BY-AP-MW-12V									BY-AP-MW-13V	
		10/31/2022	01/08/2019	10/01/2019	03/31/2020	09/01/2020	05/18/2021	10/27/2021	05/24/2022	11/01/2022	01/08/2019	10/02/2019	03/31/2020	09/01/2020	05/18/2021	11/01/2021	05/23/2022	11/01/2022	06/17/2020	09/02/2020	
Appendix III																					
Boron	mg/L	0.186	0.677	1.02	1.04	1.06	0.971	0.933	0.939	0.991	0.0939 J	0.134	0.101	0.149	0.118	0.0962 J	0.0765 J	0.0701 J	0.0847 J	0.112	
Calcium	mg/L	23.9	57.2	61.2	66.6	57.3	64	61.6	64.2	69.2	33.8	22.2	21.3	21	22.1	21.4	20.6	18.7	20.2	12.3	
Chloride	mg/L	27.1	21.3	20	20.7	22.9	21	21	19.4	22.1	23.1	28	25	26.4	25.5	26.1	25.6	26.9	77	51.7	
Fluoride	mg/L	0.0963 J	0.123	<0.05	<0.06	0.0695 J	<0.06	<0.06	<0.06	0.0602 J	0.0729 J	0.113	0.0828 J	0.0947 J	0.0783 J	0.123	<0.06	0.13	0.103	0.0864 J	
pH_Field	SU	6.23	6.5	6.05	6.38	6.34	6.34	6.1	5.77	6.41	6.48	5.9	6.33	6.2	5.92	6.09	6.22	6.32	6.25	6.23	
Sulfate	mg/L	10	93.7	4.91	20.3	30.1	24.9	6.04	5.73	11.4	10.3	9.34	61.1	47.5	32.8	10.9	6.64	12.3	101	30.6	
TDS	mg/L	328	462	393	413	403	401	400	403	452	348	321	328	338	329	352	352	365	449	361	
Appendix IV																					
Antimony	mg/L	<0.000508	0.000965 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.00117 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.0008	
Arsenic	mg/L	0.00122	<0.001	<0.001	<0.001	<0.001	0.000356	0.000331	0.00032	0.000299	0.0112	0.0215	0.025	0.0257	0.0251	0.0256	0.0257	0.0241	0.00321 J	0.00708	
Barium	mg/L	0.268	0.149	0.163	0.184	0.203	0.212	0.182	0.188	0.199	0.144	0.0977	0.0939	0.102	0.111	0.103	0.101	0.101	0.106	0.109	
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	
Cadmium	mg/L	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	
Chromium	mg/L	0.000713 J	<0.002	<0.002	<0.002	<0.002	0.000684 J	0.000677 J	0.000493 J	0.000415 J	0.0021 J	<0.002	<0.002	<0.002	0.00112	0.000862 J	0.000905 J	0.000827 J	0.00537 J	0.00525 J	
Cobalt	mg/L	0.000535	<0.002	<0.002	<0.002	<0.002	0.000648	0.000613	0.000618	0.000538	<0.002	<0.002	<0.002	<0.002	0.00237	0.00231	0.00255	0.00239	<0.002	<0.002	
Combined Radium 226+228	pCi/L	1.12	1.35	1.99	0.957	0.625 U	1.66	1.44 U	1.2	1.34	1.04	0.896	0.923	1.03	1.31	0.814 U	0.962 U	0.816 U	1.22	2.49	
Lead	mg/L	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	8.16e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	
Lithium	mg/L	<0.007105	0.0313	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	0.0148 J	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.000261	0.00335 J	<0.002	<0.002	<0.002	0.000148 J	0.000143 J	0.000148 J	<0.000102	0.00303 J	<0.002	<0.002	<0.002	0.00106	0.00118	0.00123	0.00112	0.00237 J	<0.002	
Selenium	mg/L	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-13V				BY-AP-MW-14V						BY-AP-MW-15V								
		05/19/2021	10/26/2021	05/25/2022	11/01/2022	06/17/2020	09/02/2020	05/25/2021	10/26/2021	05/24/2022	11/01/2022	07/31/2019	10/01/2019	05/12/2020	09/01/2020	05/25/2021	10/26/2021	05/24/2022	11/02/2022	06/16/2020
Appendix III																				
Boron	mg/L	0.0976 J	0.0888 J	0.0852 J	0.0803 J	0.426	0.407	0.43	0.393	0.377	0.371	0.0439 J	0.0824 J	0.0559 J	0.0907 J	0.0617 J	0.0498 J	0.0376 J	0.033 J	<0.03
Calcium	mg/L	12.7	11.3	12	12.2	5.32	4.7	4.66	5.28	6.83	5.95	9.32	8.41	8.01	6.9	8.47	8.13	8.1	7.84	2.15
Chloride	mg/L	64.4	47.7	59.3	62.7	240	178	210	191	184	175	157	195	190	170	180	183	191	179	77.4
Fluoride	mg/L	0.0884 J	0.096 J	<0.06	0.069 J	0.343	0.359	0.378	0.384	0.291	0.275	0.0515 J	0.0931 J	0.0946 J	0.0624 J	<0.06	<0.06	<0.06	<0.06	0.0744 J
pH_Field	SU	6.2	6.81	6.3	6.29	7.27	7.02	7.2	6.91	6.71	6.9	5.37	5.68	5.68	5.91	5.6	5.93	5.7	5.38	5.2
Sulfate	mg/L	39.7	47.3	122	136	28	63.6	39.5	75.1	13.6	10.7	2.65	0.854 J	1.61	2.21	1.19	0.829 J	1.77 J	6.26	41.5
TDS	mg/L	362	355	343	340	546	498	520	474	508	464	337	321	327	318	335	321	348	358	238
Appendix IV																				
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.00094 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008
Arsenic	mg/L	0.00877	0.0103	0.0102	0.00887	0.00208 J	0.00433 J	0.00324	0.0041	0.00532	0.0058	0.0174	0.0243	0.0206	0.0401	0.0233	0.0242	0.0255	0.0403	0.00135 J
Barium	mg/L	0.114	0.0827	0.0888	0.099	0.0809	0.0766	0.0729	0.0653	0.067	0.0651	0.144	0.13	0.155	0.134	0.184	0.149	0.156	0.153	0.0658
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	0.00018 J	0.0001 J	<0.0003
Chromium	mg/L	0.00416	0.00606	0.00379	0.00391	<0.002	<0.002	0.00113	0.00098 J	0.000602 J	0.000613 J	<0.002	<0.002	<0.002	<0.002	0.000258 J	0.000264 J	0.000207 J	<0.000203	0.00222 J
Cobalt	mg/L	0.000827	0.00114	0.00119	0.00112	<0.002	0.00444 J	0.00271	0.00419	0.00327	0.00405	0.0632	0.0629	0.0719	0.0665	0.0694	0.0757	0.0788	0.0697	0.0144
Combined Radium 226+228	pCi/L	0.783 U	1.6	0.951 U	0.933 U	0.726	1.54	0.859 U	1.34 U	1.26	1.38	1.09	1.51	1.67	1.28	1.72	2.53	1.85	1.46	0.642
Lead	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	7.24e-005 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	0.000111 J	<6.8e-005	<0.001
Lithium	mg/L	<0.007105	0.0484	0.0318	0.0347	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000642	0.00135	0.000703	0.000573	0.00451 J	0.00229 J	0.00135	0.0012	0.00275	0.00119	<0.002	<0.002	<0.002	<0.002	0.000106 J	0.00011 J	<0.000102	<0.000102	<0.002
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	8.49e-005 J	7.4e-005 J	0.00014 J	0.000133 J	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-16V					BY-AP-MW-17V					BY-AP-MW-20V					BY-AP-MW-23V			
		09/02/2020	05/19/2021	10/26/2021	05/25/2022	11/01/2022	06/16/2020	09/01/2020	05/18/2021	10/25/2021	05/25/2022	10/31/2022	06/17/2020	09/01/2020	05/19/2021	11/01/2021	05/24/2022	11/01/2022	06/16/2020	09/01/2020
Appendix III																				
Boron	mg/L	<0.03	<0.03	<0.03	<0.03	<0.03	0.176	0.124	0.124	0.113	0.177	0.195	0.118	0.134	0.119	0.11	0.0951 J	0.113	0.325	0.307
Calcium	mg/L	2.02	2.26	1.96	1.8	2.43	65.3	20.5	15	6.58	50.2	58.5	17.9	14.7	15.3	15.1	14.4	14.8	1.25	1.27
Chloride	mg/L	75.6	81.2	68.3	56.6	70.9	734	273	225	111	649	914	29.2	27.1	32.4	29.6	35.4	28.4	120	117
Fluoride	mg/L	<0.06	<0.06	<0.06	<0.06	<0.06	0.0994 J	0.144	0.16	0.172	0.0799 J	0.118 J	0.155	0.106	0.123	0.14	0.0852 J	0.0715 J	0.393	0.401
pH_Field	SU	5.23	5.24	5.26	5.26	5.13	6.43	6.49	6.55	6.53	6.34	6.4	6.26	6.03	6.44	6	6.28	6.3	8.08	7.98
Sulfate	mg/L	40	40.9	38.1	35.1	29.9	57.4	26.6	17.4	11	49.1	55.8	10.1	38.3	1.93	5.66	3.66	6.08	28.6	9.25
TDS	mg/L	219	213	195	188	184	1460	576	438	280	1270	1720	301	308	271	282	296	275	479	391
Appendix IV																				
Antimony	mg/L	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.0008
Arsenic	mg/L	0.0012 J	0.00123	0.00105	0.00112	0.000989	0.0117	0.00472 J	0.00546	0.00162	0.00158	0.00135	0.00584	0.00845	0.0148	0.0182	0.0193	0.0186	0.00193 J	<0.001
Barium	mg/L	0.0733	0.0743	0.0589	0.0569	0.0656	0.62	0.277	0.255	0.0928	0.683	0.781	0.152	0.115	0.107	0.0883	0.0907	0.0842	0.02	0.00933 J
Beryllium	mg/L	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003
Chromium	mg/L	<0.002	0.000385 J	0.000402 J	0.000278 J	0.000275 J	0.00475 J	<0.002	0.000973 J	0.000619 J	0.000477 J	<0.000203	<0.002	<0.002	0.000669 J	0.000606 J	0.000464 J	0.000578 J	0.0221	0.00284 J
Cobalt	mg/L	0.0163	0.0153	0.0159	0.0143	0.0185	0.0858	0.022	0.0197	0.00915	0.0717	0.0967	0.00593	0.012	0.0173	0.0236	0.0268	0.0309	0.00302 J	<0.002
Combined Radium 226+228	pCi/L	1.15	0.496 U	0.773 U	1.03 U	0.705 U	2.17	1.9	1.05 U	1.04 U	5.37	5.26	0.767	1.43	1.43	1.48	0.97 U	0.873	0.752 U	0.323 U
Lead	mg/L	<0.001	<6.8e-005	<6.8e-005	0.000127 J	<6.8e-005	<0.001	<0.001	0.000137 J	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	0.00222 J	<0.001
Lithium	mg/L	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<6.8e-005	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	0.000571	0.000877	0.000428	0.000691	<0.002	<0.002	0.00155	0.00181	0.0015	0.00137	<0.002	<0.002
Selenium	mg/L	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002
Thallium	mg/L	<0.0002	9.13e-005 J	0.000103 J	9.19e-005 J	0.000112 J	<0.0002	<0.0002	<6.8e-005	<6.8e-005	0.000103 J	0.000166 J	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-23V				BY-AP-MW-25V						BY-AP-MW-17H									
		05/17/2021	10/26/2021	05/25/2022	11/01/2022	06/17/2020	09/02/2020	05/24/2021	11/02/2021	05/25/2022	11/01/2022	07/31/2019	10/02/2019	04/01/2020	09/01/2020	05/17/2021	10/25/2021	05/25/2022	10/31/2022	03/20/2019	
Appendix III																					
Boron	mg/L	0.32	0.306	0.307	0.345	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	0.0782 J	0.129	0.073 J	0.146	0.0911 J	0.0887 J	0.0559 J	0.0479 J	0.924	
Calcium	mg/L	1.33	0.837	0.899	3.65	0.842	0.547	0.554	0.567	0.478	0.649	19.1	13.2	27	10.8	12.8	10.4	10.7	11.2	28.2	
Chloride	mg/L	134	124	106	365	4.04	3.85	3.48	3.42	3.22	3.52	18	17.7	17.2	18.2	17.1	19.2	16	17.1	17.6	
Fluoride	mg/L	0.379	0.445	0.385	0.222	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06	0.178	0.254	0.151	0.196	0.148	0.162	0.138	0.135	0.126	
pH_Field	SU	7.87	8.31	7.44	7.36	5.27	5.32	5.24	5.13	5.45	4.22	6.64	6.58	6.52	6.56	6.35	6.48	6.21	6.34	6.19	
Sulfate	mg/L	6.92	4.23	4.25	11	2.39	2.26	2.59	2.08	2.13	1.85 J	23	10.6	19.4	7.61	10.2	20.3	3.58	13.2	12.7	
TDS	mg/L	386	362	359	858	37.3	34	26.7	36	29.3	32	212	203	243	236	201	219	194	206	308	
Appendix IV																					
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.000878 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.0011 J	
Arsenic	mg/L	0.00119	0.00119	0.00158	0.00198	<0.001	<0.001	<6.8e-005	<6.8e-005	<8.1e-005	<8.1e-005	0.0221	0.0251	0.0208	0.0371	0.0329	0.0364	0.0307	0.0281	0.00835	
Barium	mg/L	0.0094	0.00766	0.00729	0.036	0.0132	0.0111	0.00981	0.00907	0.00947	0.0106	0.138	0.117	0.194	0.114	0.125	0.0953	0.126	0.113	0.154	
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	
Chromium	mg/L	0.00163	0.000605 J	0.000455 J	<0.000203	<0.002	<0.002	0.00119	0.0013	0.0012	0.00115	<0.002	<0.002	<0.002	<0.002	0.000627 J	0.000597 J	0.000334 J	0.000446 J	0.00243 J	
Cobalt	mg/L	0.000217	<6.8e-005	<6.8e-005	0.00022	0.0026 J	<0.002	0.000422	0.000366	0.000277	0.000337	<0.002	0.0033 J	<0.002	0.00258 J	0.0013	0.00369	0.0013	0.00156	<0.002	
Combined Radium 226+228	pCi/L	0.374 U	0.285 U	0.285 U	0.656 U	0.479	0.596	0.531 U	1.05 U	0.527 U	0.545 U	0.621	1.14	0.797	0.44 U	1.64	1.57	1.71	0.928 U	0.473	
Lead	mg/L	0.000216	9.98e-005 J	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	9.09e-005 J	9.9e-005 J	<6.8e-005	<6.8e-005	<0.001	
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Molybdenum	mg/L	0.00147	0.00124	0.00151	0.00058	<0.002	<0.002	9.23e-005 J	<6.8e-005	<0.000102	<0.000102	<0.002	<0.002	<0.002	<0.002	0.000469	0.000842	0.000454	0.000432	<0.002	
Selenium	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-18H							BY-AP-MW-19H							BY-AP-MW-20H				
		10/01/2019	04/01/2020	09/01/2020	05/19/2021	10/25/2021	05/23/2022	10/31/2022	07/31/2019	10/01/2019	05/12/2020	09/01/2020	05/25/2021	10/25/2021	05/24/2022	10/31/2022	07/31/2019	10/01/2019	04/01/2020	09/01/2020
Appendix III																				
Boron	mg/L	1.05	0.435	0.855	0.866	0.934	0.91	1.65	0.848	0.931	1.22	0.895	0.252	0.142	0.159	0.63	0.0707 J	0.101	0.046 J	0.106
Calcium	mg/L	27.2	23.1	25.6	27.1	27.1	25.5	31.3	31.8	31.1	34.2	31.6	23.9	18.3	18.6	31.7	30.3	29.4	26	28.8
Chloride	mg/L	20.1	12.2	19.8	19.3	20.5	18.9	27.1	16.4	16.8	17.9	17.6	10.7	10.1	10.4	15.2	33.4	44.7	23.1	34.6
Fluoride	mg/L	0.071 J	0.0722 J	0.0784 J	0.0886 J	0.0728 J	0.0857 J	0.148	0.089 J	0.0712 J	0.0732 J	0.0752 J	0.0673 J	<0.06	<0.06	<0.06	0.0934 J	0.0838 J	0.0793 J	0.0954 J
pH_Field	SU	6.26	6.48	6.15	6.23	6.76	6.24	6.23	6.21	6.33	6.09	6.31	6.1	6.13	5.8	6.1	6.22	6.24	6.45	6.15
Sulfate	mg/L	8.49	24.2	30.6	7.48	55	9.46	12.1	11.3	5.9	22.9	16.9	26.6	28.7	34.7	23	83.2	28.9	18.7	43.5
TDS	mg/L	283	210	281	293	309	292	303	312	316	321	294	162	123	133	249	481	470	319	479
Appendix IV																				
Antimony	mg/L	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.00137 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	0.00113 J	<0.0008	<0.0008	<0.0008	<0.0008
Arsenic	mg/L	0.0137	0.00937	0.015	0.0147	0.0155	0.0142	0.00934	<0.001	<0.001	<0.001	0.00101 J	0.0015	0.00134	0.000993	0.000914	0.0112	0.013	0.00508	0.0172
Barium	mg/L	0.126	0.109	0.123	0.147	0.122	0.128	0.129	0.137	0.113	0.167	0.159	0.104	0.0738	0.0819	0.123	0.0928	0.0913	0.119	0.11
Beryllium	mg/L	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006
Cadmium	mg/L	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003
Chromium	mg/L	<0.002	<0.002	<0.002	0.00132	0.00134	0.00139	0.000591 J	<0.002	<0.002	<0.002	<0.002	0.000391 J	0.00044 J	0.000454 J	0.000431 J	0.00209 J	0.0025 J	<0.002	0.00283 J
Cobalt	mg/L	<0.002	0.013	<0.002	0.00109	0.00101	0.00108	0.000672	<0.002	<0.002	<0.002	<0.002	0.00294	0.00501	0.00513	0.00053	0.00433 J	0.00431 J	0.00541	0.0046 J
Combined Radium 226+228	pCi/L	0.6	1.05	0.684	0.971 U	1.2	1.03 U	0.691 U	0.272 U	0.817	0.691	0.675	1.04 U	1.03 U	1.06 U	1.11	0.268 U	1.22	0.968	0.39 U
Lead	mg/L	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001
Lithium	mg/L	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.002	<0.002	<0.002	0.00025	0.000239	0.000389	0.000195 J	<0.002	<0.002	<0.002	<0.002	0.000124 J	8.42e-005 J	<0.000102	0.000139 J	<0.002	<0.002	<0.002	<0.002
Selenium	mg/L	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002
Thallium	mg/L	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002

- Notes:
 1. mg/L - Milligrams per Liter
 2. pCi/L - picocuries per Liter
 3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-20H				BY-AP-MW-22H								BY-AP-MW-23H						
		05/19/2021	10/26/2021	05/23/2022	10/31/2022	07/31/2019	10/01/2019	05/12/2020	09/01/2020	05/25/2021	10/26/2021	05/24/2022	10/31/2022	07/31/2019	10/01/2019	04/01/2020	09/01/2020	05/24/2021	10/26/2021	05/25/2022
Appendix III																				
Boron	mg/L	0.0909 J	0.0784 J	0.0653 J	0.0767 J	0.0643 J	0.105	0.0807 J	0.115	0.0889 J	0.0725 J	0.0562 J	0.0703 J	0.0531 J	0.0856 J	<0.03	0.0943 J	0.0785 J	0.0709 J	0.0526 J
Calcium	mg/L	30.9	30.2	28.6	29.3	15	15.5	15	14.8	15.2	15.1	14.4	15.1	25.8	27.2	15.8	35.8	27.1	29.4	22.4
Chloride	mg/L	36.2	34	44.1	35.3	60.3	70	58.3	59.9	65.4	54.5	57.1	61.6	8.03	6.7	4.46	6.96	6.33	5.64	6.63
Fluoride	mg/L	0.0852 J	0.114	0.124 J	0.0822 J	0.257	0.268	0.323	0.301	0.282	0.323	0.318	0.257	0.0766 J	0.0804 J	0.0607 J	0.0919 J	0.0734 J	0.0709 J	<0.06
pH_Field	SU	6.17	6.49	6.15	6.12	6.54	6.6	6.55	6.48	6.44	6.86	6.57	6.46	6.08	6.03	6.44	6.14	6.19	6.54	5.92
Sulfate	mg/L	59.5	73.2	95.1	103	171	17.2	59.5	93.2	72.3	140	103	110	18.4	4.89	18.1	24.5	3.99	29.5	4.01
TDS	mg/L	479	493	462	482	345	346	337	362	378	362	372	363	241	261	105	271	244	252	236
Appendix IV																				
Antimony	mg/L	<0.000507	<0.000508	<0.000508	<0.000508	0.00117 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	0.000964 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508
Arsenic	mg/L	0.0132	0.0133	0.0134	0.0131	0.0225	0.0225	0.0199	0.0217	0.0191	0.0202	0.0185	0.0183	0.0132	0.013	0.00689	0.0226	0.0133	0.00807	0.00478
Barium	mg/L	0.111	0.0936	0.1	0.0954	0.185	0.213	0.222	0.234	0.261	0.202	0.215	0.2	0.162	0.175	0.0629	0.182	0.208	0.188	0.176
Beryllium	mg/L	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.00284	0.00261	0.00233	0.00246	<0.002	<0.002	<0.002	<0.002	0.000667 J	0.000618 J	0.000566 J	0.000493 J	<0.002	<0.002	<0.002	<0.002	0.000814 J	0.000696 J	0.000604 J
Cobalt	mg/L	0.00426	0.00447	0.00423	0.00428	0.00233 J	0.00268 J	0.00281 J	0.00294 J	0.00264	0.00285	0.00276	0.00274	0.0031 J	0.00201 J	0.0206	0.0273	0.00682	0.00495	0.002
Combined Radium 226+228	pCi/L	1.03 U	1.28 U	0.657 U	1.15	0.448	0.508	0.61	0.419 U	1.26	1.52	0.656 U	0.454 U	0.331 U	1.05	0.618	0.224 U	1.1 U	1.13 U	0.674 U
Lead	mg/L	0.000224	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005
Lithium	mg/L	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	0.000503	0.000482	0.000537	0.000556	0.00426 J	<0.002	<0.002	<0.002	0.00137	0.00136	0.00145	0.0013	<0.002	<0.002	<0.002	<0.002	0.00069	0.00035	0.000131 J
Selenium	mg/L	<0.000507	<0.000508	0.000538 J	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu



**Appendix A. Analytical Summary Data
Plant Barry Ash Pond**

Analyte	Units	BY-AP-MW-24H									BY-AP-MW-25H					
		11/01/2022	01/08/2019	10/02/2019	03/31/2020	09/02/2020	05/25/2021	10/26/2021	05/24/2022	11/02/2022	06/17/2020	09/02/2020	05/24/2021	11/02/2021	05/25/2022	10/31/2022
Appendix III																
Boron	mg/L	0.0554 J	0.213	0.344	0.325	0.382	0.37	0.354	0.351	0.339	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Calcium	mg/L	24.4	38	18.4	18.1	17.6	18.6	18.4	17.5	17	0.793	0.875	0.905	1.05	0.857	1.04
Chloride	mg/L	7.77	44.6	53	47.5	43.7	46	41.6	50.8	45.4	4.81	4.62	4.72	5.07	5.32	5.67
Fluoride	mg/L	<0.06	0.147	0.183	0.148	0.158	0.156	0.158	0.149	0.131	<0.06	<0.06	<0.06	<0.06	<0.06	<0.06
pH_Field	SU	6	6.51	6.21	6.23	6.01	6.16	6.2	6.22	6.05	5.27	5.39	4.12	5.01	5.23	5.11
Sulfate	mg/L	5.37	31.2	92.3	84.5	59.7	17	122	24.3	19.9	6.1	4.39	4.94	4.28	4.24	4.57
TDS	mg/L	235	504	430	418	471	420	448	383	446	44	36	39.3	34.7	37.3	40
Appendix IV																
Antimony	mg/L	<0.000508	0.00116 J	<0.0008	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508	<0.0008	<0.0008	<0.000507	<0.000508	<0.000508	<0.000508
Arsenic	mg/L	0.00463	0.0306	0.0673	0.0729	0.0783	0.0693	0.0752	0.0718	0.0681	<0.001	<0.001	8.73e-005 J	0.000162 J	0.000196 J	8.69e-005 J
Barium	mg/L	0.165	0.294	0.229	0.243	0.26	0.26	0.238	0.246	0.229	0.0189	0.0204	0.0206	0.0203	0.0197	0.0198
Beryllium	mg/L	<0.000406	<0.0006	<0.0006	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406	<0.0006	<0.0006	<0.000406	<0.000406	<0.000406	<0.000406
Cadmium	mg/L	<6.8e-005	<0.0003	<0.0003	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0003	<0.0003	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005
Chromium	mg/L	0.000486 J	<0.002	<0.002	<0.002	<0.002	0.000878 J	0.00104	0.000881 J	0.000675 J	<0.002	<0.002	0.00117	0.000976 J	0.00104	0.000938 J
Cobalt	mg/L	0.000639	0.00243 J	0.00513	0.00528	0.0061	0.00542	0.00591	0.00571	0.00575	<0.002	0.00246 J	0.00156	0.00146	0.00132	0.00135
Combined Radium 226+228	pCi/L	0.583 U	1.49	1.24	0.577	1.5 U	0.695 U	0.987 U	1.08 U	1.05	0.554	0.0187 U	0.545 U	0.707 U	0.682 U	0.793 U
Lead	mg/L	<6.8e-005	<0.001	<0.001	<0.001	<0.001	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.001	<0.001	<6.8e-005	<6.8e-005	7.52e-005 J	<6.8e-005
Lithium	mg/L	<0.007105	0.0183 J	<0.01	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105	<0.01	<0.01	<0.007105	<0.007105	<0.007105	<0.007105
Mercury	mg/L	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Molybdenum	mg/L	<0.000102	0.00399 J	<0.002	<0.002	<0.002	0.000869	0.000964	0.000923	0.00104	<0.002	<0.002	0.000102 J	0.00014 J	0.000103 J	<0.000102
Selenium	mg/L	<0.000508	<0.002	<0.002	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508	<0.002	<0.002	<0.000507	<0.000508	<0.000508	<0.000508
Thallium	mg/L	<6.8e-005	<0.0002	<0.0002	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005	<0.0002	<0.0002	<6.8e-005	<6.8e-005	<6.8e-005	<6.8e-005

Notes:

1. mg/L - Milligrams per Liter
2. pCi/L - picocuries per Liter
3. J - Result is an estimated value. The resu

Appendix B



Appendix B. Historical Groundwater Elevations Summary

Plant Barry Ash Pond
02/22/2016 - 10/31/2022

Well	Hydraulic Location	Geologic Unit	Measure Date																
			02/22/16	02/29/16	04/18/16	06/06/16	06/07/16	08/29/16	08/30/16	10/17/16	01/30/17	01/31/17	03/20/17	05/01/17	06/05/17	09/12/17	01/22/18	04/30/18	08/27/18
BY-UP-MW-1	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	7.73		7.92	5.81		5.13		4.59	6.94		5.42	5.51	6.64	5.45	4.75	6.83	5.22
BY-UP-MW-2	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	7.55		7.77	5.75		5.04		4.50	6.82		5.30	5.48	6.45	5.30	4.68	6.66	5.06
BY-UP-MW-3	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	8.19		8.45	6.52		5.78		5.19	7.55		6.04	6.16	7.39	6.16	5.46	7.19	5.76
BY-UP-MW-4	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	7.83		8.13	6.21		5.47		4.93	7.25		5.71	5.98	6.87	5.74	5.18	6.99	5.47
BY-AP-MW-1	Downgradient	Unit 1-Unit 2 Transition		8.19	5.78		4.52		4.12	2.86		6.90	4.27	4.49	5.11	3.46	3.67	6.52	4.19
BY-AP-MW-2	Downgradient	Unit 3: Upper Sands (Watercourse Aq)		7.59	6.58		3.51		3.03	2.61		5.79	2.99	3.95	4.13	2.49	2.47	5.84	2.95
BY-AP-MW-3	Downgradient	Unit 3: Middle Sands (Watercourse Aq)		7.53	6.53		3.35		2.84	2.43		5.73	2.85	3.81	4.00	2.31	2.31	5.78	2.83
BY-AP-MW-4	Downgradient	Unit 3: Middle Sands (Watercourse Aq)		7.41	6.36		3.12		2.68	3.88		2.73	6.89	3.60	4.45	4.70	2.46	2.86	7.10
BY-AP-MW-5	Downgradient	Unit 3: Upper Sands (Watercourse Aq)		7.39	6.24		2.78		5.98	1.80		5.35	2.44	3.27	3.43	1.58	1.78	5.49	2.48
BY-AP-MW-6	Downgradient	Unit 3: Middle Sands (Watercourse Aq)		7.48	6.34		2.87		2.46	1.66		5.36	2.33	3.20	3.36	1.36	1.63	5.58	2.33
BY-AP-MW-7	Downgradient	Unit 3: Middle Sands (Watercourse Aq)		7.86	6.51		2.74		2.52	1.52		5.52	2.28	3.15	3.40	1.25	1.81	5.82	2.29
BY-AP-MW-8	Downgradient	Unit 3: Upper Sands (Watercourse Aq)		5.19	5.41		2.48		2.34	1.19		5.35	2.06	2.91	3.16	0.92	1.32	5.56	2.14
BY-AP-MW-9	Downgradient	Unit 3: Upper Sands (Watercourse Aq)		7.26	6.16		2.54		2.17	1.08		5.09	1.85	2.77	3.00	0.74	1.09	5.33	1.90
BY-AP-MW-10	Downgradient	Unit 3: Upper Sands (Watercourse Aq)		7.77	6.29		2.74		2.35	4.69		5.56	5.82	3.56	3.94	8.15	4.75	5.77	8.94
BY-AP-MW-11	Downgradient	Unit 3: Upper Sands (Watercourse Aq)		7.82	6.36		2.89		2.48	5.18		5.95	6.20	3.99	4.47	8.55	5.21	6.15	9.36
BY-AP-MW-12	Downgradient	Unit 3: Middle Sands (Watercourse Aq)		7.43	6.00		2.56		2.16	1.07		4.93	1.91	2.67	2.93	0.73	1.19	5.23	1.99
BY-AP-MW-13	Downgradient	Unit 3: Upper Sands (Watercourse Aq)		7.49	6.06		2.67		2.28	1.14		4.98	1.99	2.74	3.01	0.81	1.17	5.28	2.10
BY-AP-MW-14	Downgradient	Unit 3: Upper Sands (Watercourse Aq)		6.89	5.49		2.66		1.72	0.73		4.49	1.44	2.29	2.54	0.36	0.61	4.66	1.49
BY-AP-MW-15	Downgradient	Unit 3: Middle Sands (Watercourse Aq)		7.21	5.88		2.61		2.20	1.34		4.94	1.93	2.82	3.04	0.99	1.18	5.14	1.98
BY-AP-MW-16	Downgradient	Unit 3: Middle Sands (Watercourse Aq)		7.34	6.17		2.94		2.52	2.04		5.31	2.38	3.40	3.52	1.76	1.93	5.40	2.40

Notes:
 (1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
 (2) NM = Not Measured



Appendix B. Historical Groundwater Elevations Summary

Plant Barry Ash Pond
02/22/2016 - 10/31/2022

Well	Hydraulic Location	Geologic Unit	Measure Date															
			11/26/18	03/20/19	05/28/19	09/30/19	10/02/19	03/30/20	05/12/20	06/15/20	08/31/20	09/08/20	05/11/21	05/12/21	05/24/21	10/18/21	05/23/22	10/31/22
BY-UP-MW-1	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	5.84		6.60		4.78	8.38				5.31	7.41		7.13	6.64	6.17	5.04
BY-UP-MW-2	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	5.73		6.32		4.71	8.05				5.16	7.25		6.80	6.40	6.03	5.00
BY-UP-MW-3	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	6.40		7.02		5.37	8.54				5.83	8.03		7.49	7.19	6.75	5.79
BY-UP-MW-4	Upgradient	Unit 3: Middle Sands (Watercourse Aq)	6.13		6.57		5.16	8.20				5.53	NM		6.99	6.68	6.37	5.53
BY-AP-MW-1	Downgradient	Unit 1-Unit 2 Transition	5.10	7.53	4.33	3.40		6.97	4.38	5.02	5.02			7.35	5.28	5.06	4.57	3.11
BY-AP-MW-2	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	4.26	6.99	3.55	2.74		6.53	3.55	3.81	3.84			6.73	3.96	3.63	3.57	3.61
BY-AP-MW-3	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	4.09	6.86	3.41	2.60		6.46	3.39	3.70	3.84			6.67	3.84	3.47	3.59	3.52
BY-AP-MW-4	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	3.68	4.71	7.91	3.71		2.86	7.43	3.07	3.95			4.75	11.19	7.23	3.31	3.03
BY-AP-MW-5	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	3.53	6.43	2.89	2.08		5.90	2.66	3.00	3.29			6.25	Artesian	2.81	2.84	2.55
BY-AP-MW-6	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	3.60	6.45	2.66	1.91		6.10	2.51	2.85	3.30			6.44	3.04	2.64	2.60	2.47
BY-AP-MW-7	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	3.51	6.60	2.47	1.69		6.25	2.31	2.90	3.35			6.82	3.00	2.68	2.35	2.67
BY-AP-MW-8	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	3.17	6.37	2.17	1.32		5.89	1.53	2.41	3.21			9.65	5.69	8.30	2.16	1.94
BY-AP-MW-9	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	3.15	6.17	1.96	1.26		5.83	1.47	2.36	2.97			6.30	-7.64	2.05	2.24	1.87
BY-AP-MW-10	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	4.80	4.02	7.64	4.26		5.14	5.79	11.63	7.67			7.39	10.45	8.97	1.95	1.58
BY-AP-MW-11	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	5.27	4.49	8.89	4.59		5.45	6.11	12.11	8.33			7.98	10.77	9.31	2.69	1.63
BY-AP-MW-12	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	2.86	5.98	1.97	1.26		6.02	1.52	2.31	2.95			6.20	2.48	2.13	2.63	1.72
BY-AP-MW-13	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	2.94	6.09	2.11	1.42		5.83	1.68	2.43	3.11			6.33	2.64	2.29	2.84	1.85
BY-AP-MW-14	Downgradient	Unit 3: Upper Sands (Watercourse Aq)	2.51	5.49	1.60	0.89		5.04	0.97	1.77	1.96			5.54	1.89	1.56	1.71	1.25
BY-AP-MW-15	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	3.07	6.13	2.23	1.58		5.77	1.93	2.57	3.12			6.19	2.74	2.45	2.57	2.49
BY-AP-MW-16	Downgradient	Unit 3: Middle Sands (Watercourse Aq)	3.70	6.47	2.82	2.20		6.08	2.35	3.83	3.45			6.46	3.22	2.92	3.06	3.03

Notes:
 (1) Groundwater elevations measured in vertical feet relative to the North American Vertical Datum (NAVD) 1988.
 (2) NM = Not Measured

Appendix C

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Plant Barry Pooled Upgradient

2022 Compliance Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field readings for pH were qualified for wells MW-1, MW-2, MW-3 and MW-4 due to pH readings falling outside of the bracketed calibration range. The below qualifier was used:

- E – Estimated reported value exceeded calibration range

Rainy conditions were present when pumping and sampling well MW-4.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Plant Barry Ash Pond

2022 Compliance Event 1

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Strong winds caused dusty conditions when sampling well MW-3.

Rain was present when pumping and sampling wells MW-19H, MW-15V, MW-7, MW-7V, MW-9, MW-14, MW-14V, MW-15 and MW-23V.

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

**Groundwater Field Parameters
Plant Barry Pooled Upgradient Wells**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
MW-1	Conductivity	5/31/2022 13:01	58.03	uS/cm
MW-1	DO	5/31/2022 13:01	0.44	mg/L
MW-1	Depth to Water Detail	5/31/2022 13:01	13.92	ft
MW-1	Oxidation Reduction Potention	5/31/2022 13:01	181.73	mv
MW-1	pH	5/31/2022 13:01	4.26	SU
MW-1	Temperature	5/31/2022 13:01	20.95	C
MW-1	Turbidity	5/31/2022 13:01	2.43	NTU
MW-1	Conductivity	5/31/2022 13:06	57.52	uS/cm
MW-1	DO	5/31/2022 13:06	0.38	mg/L
MW-1	Depth to Water Detail	5/31/2022 13:06	13.92	ft
MW-1	Oxidation Reduction Potention	5/31/2022 13:06	186.18	mv
MW-1	pH	5/31/2022 13:06	4.12	SU
MW-1	Temperature	5/31/2022 13:06	20.84	C
MW-1	Turbidity	5/31/2022 13:06	1.33	NTU
MW-1	Conductivity	5/31/2022 13:11	56.99	uS/cm
MW-1	DO	5/31/2022 13:11	0.37	mg/L
MW-1	Depth to Water Detail	5/31/2022 13:11	13.92	ft
MW-1	Oxidation Reduction Potention	5/31/2022 13:11	195.4	mv
MW-1	pH	5/31/2022 13:11	3.86	SU
MW-1	Temperature	5/31/2022 13:11	20.98	C
MW-1	Turbidity	5/31/2022 13:11	1.27	NTU
MW-1	Conductivity	5/31/2022 13:16	57	uS/cm
MW-1	DO	5/31/2022 13:16	0.35	mg/L
MW-1	Depth to Water Detail	5/31/2022 13:16	13.92	ft
MW-1	Oxidation Reduction Potention	5/31/2022 13:16	193.75	mv
MW-1	pH	5/31/2022 13:16	3.88	SU
MW-1	Temperature	5/31/2022 13:16	20.79	C
MW-1	Turbidity	5/31/2022 13:16	1.64	NTU
MW-1	Conductivity	5/31/2022 13:21	57.06	uS/cm
MW-1	DO	5/31/2022 13:21	0.34	mg/L
MW-1	Depth to Water Detail	5/31/2022 13:21	13.92	ft
MW-1	Oxidation Reduction Potention	5/31/2022 13:21	193.96	mv
MW-1	pH	5/31/2022 13:21	3.89	SU
MW-1	Sulfide	5/31/2022 13:21	0	mg/L
MW-1	Temperature	5/31/2022 13:21	20.77	C
MW-1	Turbidity	5/31/2022 13:21	2	NTU

MW-2	Conductivity	5/31/2022 14:00	51.15	uS/cm
MW-2	DO	5/31/2022 14:00	6.6	mg/L
MW-2	Depth to Water Detail	5/31/2022 14:00	13.35	ft
MW-2	Oxidation Reduction Potention	5/31/2022 14:00	183.27	mv
MW-2	pH	5/31/2022 14:00	3.95	SU
MW-2	Temperature	5/31/2022 14:00	20.02	C
MW-2	Turbidity	5/31/2022 14:00	9.16	NTU
MW-2	Conductivity	5/31/2022 14:05	50.67	uS/cm
MW-2	DO	5/31/2022 14:05	6.45	mg/L
MW-2	Depth to Water Detail	5/31/2022 14:05	13.35	ft
MW-2	Oxidation Reduction Potention	5/31/2022 14:05	202.11	mv
MW-2	pH	5/31/2022 14:05	3.67	SU
MW-2	Temperature	5/31/2022 14:05	20.01	C
MW-2	Turbidity	5/31/2022 14:05	11.13	NTU
MW-2	Conductivity	5/31/2022 14:10	50.35	uS/cm
MW-2	DO	5/31/2022 14:10	6.29	mg/L
MW-2	Depth to Water Detail	5/31/2022 14:10	13.35	ft
MW-2	Oxidation Reduction Potention	5/31/2022 14:10	215.94	mv
MW-2	pH	5/31/2022 14:10	3.48	SU
MW-2	Temperature	5/31/2022 14:10	20.16	C
MW-2	Turbidity	5/31/2022 14:10	6.79	NTU
MW-2	Conductivity	5/31/2022 14:15	50.27	uS/cm
MW-2	DO	5/31/2022 14:15	6.29	mg/L
MW-2	Depth to Water Detail	5/31/2022 14:15	13.35	ft
MW-2	Oxidation Reduction Potention	5/31/2022 14:15	222.65	mv
MW-2	pH	5/31/2022 14:15	3.39	SU
MW-2	Temperature	5/31/2022 14:15	20.24	C
MW-2	Turbidity	5/31/2022 14:15	6.82	NTU
MW-2	Conductivity	5/31/2022 14:20	50.14	uS/cm
MW-2	DO	5/31/2022 14:20	6.28	mg/L
MW-2	Depth to Water Detail	5/31/2022 14:20	13.35	ft
MW-2	Oxidation Reduction Potention	5/31/2022 14:20	225.28	mv
MW-2	pH	5/31/2022 14:20	3.32	SU
MW-2	Temperature	5/31/2022 14:20	20.23	C
MW-2	Turbidity	5/31/2022 14:20	5.15	NTU
MW-2	Conductivity	5/31/2022 14:25	50.04	uS/cm
MW-2	DO	5/31/2022 14:25	6.27	mg/L
MW-2	Depth to Water Detail	5/31/2022 14:25	13.35	ft
MW-2	Oxidation Reduction Potention	5/31/2022 14:25	226.41	mv
MW-2	pH	5/31/2022 14:25	3.31	SU
MW-2	Sulfide	5/31/2022 14:25	0	mg/L
MW-2	Temperature	5/31/2022 14:25	20	C
MW-2	Turbidity	5/31/2022 14:25	4.82	NTU

MW-3	Conductivity	5/31/2022 15:04	49.81	uS/cm
MW-3	DO	5/31/2022 15:04	5.89	mg/L
MW-3	Depth to Water Detail	5/31/2022 15:04	15.93	ft
MW-3	Oxidation Reduction Potention	5/31/2022 15:04	180.26	mv
MW-3	pH	5/31/2022 15:04	4.04	SU
MW-3	Temperature	5/31/2022 15:04	20.62	C
MW-3	Turbidity	5/31/2022 15:04	5.91	NTU
MW-3	Conductivity	5/31/2022 15:09	49.95	uS/cm
MW-3	DO	5/31/2022 15:09	5.79	mg/L
MW-3	Depth to Water Detail	5/31/2022 15:09	15.93	ft
MW-3	Oxidation Reduction Potention	5/31/2022 15:09	206.7	mv
MW-3	pH	5/31/2022 15:09	3.67	SU
MW-3	Temperature	5/31/2022 15:09	20.24	C
MW-3	Turbidity	5/31/2022 15:09	5.43	NTU
MW-3	Conductivity	5/31/2022 15:14	49.71	uS/cm
MW-3	DO	5/31/2022 15:14	5.84	mg/L
MW-3	Depth to Water Detail	5/31/2022 15:14	15.93	ft
MW-3	Oxidation Reduction Potention	5/31/2022 15:14	216.27	mv
MW-3	pH	5/31/2022 15:14	3.6	SU
MW-3	Temperature	5/31/2022 15:14	20.11	C
MW-3	Turbidity	5/31/2022 15:14	3.35	NTU
MW-3	Conductivity	5/31/2022 15:19	49.57	uS/cm
MW-3	DO	5/31/2022 15:19	5.82	mg/L
MW-3	Depth to Water Detail	5/31/2022 15:19	15.93	ft
MW-3	Oxidation Reduction Potention	5/31/2022 15:19	223.76	mv
MW-3	pH	5/31/2022 15:19	3.54	SU
MW-3	Sulfide	5/31/2022 15:19	0	mg/L
MW-3	Temperature	5/31/2022 15:19	20.09	C
MW-3	Turbidity	5/31/2022 15:19	3.1	NTU

MW-4	Conductivity	5/31/2022 16:01	53.79	uS/cm
MW-4	DO	5/31/2022 16:01	6.49	mg/L
MW-4	Depth to Water Detail	5/31/2022 16:01	22.08	ft
MW-4	Oxidation Reduction Potention	5/31/2022 16:01	189.08	mv
MW-4	pH	5/31/2022 16:01	4.38	SU
MW-4	Temperature	5/31/2022 16:01	23.14	C
MW-4	Turbidity	5/31/2022 16:01	10.27	NTU
MW-4	Conductivity	5/31/2022 16:06	53.31	uS/cm
MW-4	DO	5/31/2022 16:06	6.48	mg/L
MW-4	Depth to Water Detail	5/31/2022 16:06	22.08	ft
MW-4	Oxidation Reduction Potention	5/31/2022 16:06	200.15	mv
MW-4	pH	5/31/2022 16:06	4.24	SU
MW-4	Temperature	5/31/2022 16:06	22.79	C
MW-4	Turbidity	5/31/2022 16:06	7.81	NTU
MW-4	Conductivity	5/31/2022 16:11	52.86	uS/cm
MW-4	DO	5/31/2022 16:11	6.5	mg/L
MW-4	Depth to Water Detail	5/31/2022 16:11	22.08	ft
MW-4	Oxidation Reduction Potention	5/31/2022 16:11	209.5	mv
MW-4	pH	5/31/2022 16:11	4.11	SU
MW-4	Temperature	5/31/2022 16:11	22.47	C
MW-4	Turbidity	5/31/2022 16:11	7.58	NTU
MW-4	Conductivity	5/31/2022 16:16	53.05	uS/cm
MW-4	DO	5/31/2022 16:16	6.49	mg/L
MW-4	Depth to Water Detail	5/31/2022 16:16	22.08	ft
MW-4	Oxidation Reduction Potention	5/31/2022 16:16	216.73	mv
MW-4	pH	5/31/2022 16:16	4.03	SU
MW-4	Temperature	5/31/2022 16:16	22.41	C
MW-4	Turbidity	5/31/2022 16:16	7.68	NTU
MW-4	Conductivity	5/31/2022 16:21	52.45	uS/cm
MW-4	DO	5/31/2022 16:21	6.48	mg/L
MW-4	Depth to Water Detail	5/31/2022 16:21	22.08	ft
MW-4	Oxidation Reduction Potention	5/31/2022 16:21	223.18	mv
MW-4	pH	5/31/2022 16:21	3.97	SU
MW-4	Sulfide	5/31/2022 16:21	0	mg/L
MW-4	Temperature	5/31/2022 16:21	22.67	C
MW-4	Turbidity	5/31/2022 16:21	8.23	NTU

**Groundwater Field Parameters
Plant Barry Ash Pond**

WELL ID	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-3	Conductivity	5/25/2022 14:37	49.5	uS/cm
BY-AP-MW-3	DO	5/25/2022 14:37	1.38	mg/L
BY-AP-MW-3	Depth to Water Detail	5/25/2022 14:37	22.39	ft
BY-AP-MW-3	Oxidation Reduction Potention	5/25/2022 14:37	128.56	mv
BY-AP-MW-3	pH	5/25/2022 14:37	4.37	SU
BY-AP-MW-3	Temperature	5/25/2022 14:37	21.64	C
BY-AP-MW-3	Turbidity	5/25/2022 14:37	1.32	NTU
BY-AP-MW-3	Conductivity	5/25/2022 14:42	56.82	uS/cm
BY-AP-MW-3	DO	5/25/2022 14:42	1.43	mg/L
BY-AP-MW-3	Depth to Water Detail	5/25/2022 14:42	22.39	ft
BY-AP-MW-3	Oxidation Reduction Potention	5/25/2022 14:42	127.2	mv
BY-AP-MW-3	pH	5/25/2022 14:42	4.49	SU
BY-AP-MW-3	Temperature	5/25/2022 14:42	21.67	C
BY-AP-MW-3	Turbidity	5/25/2022 14:42	1.16	NTU
BY-AP-MW-3	Conductivity	5/25/2022 14:47	60.25	uS/cm
BY-AP-MW-3	DO	5/25/2022 14:47	1.51	mg/L
BY-AP-MW-3	Depth to Water Detail	5/25/2022 14:47	22.39	ft
BY-AP-MW-3	Oxidation Reduction Potention	5/25/2022 14:47	124.66	mv
BY-AP-MW-3	pH	5/25/2022 14:47	4.61	SU
BY-AP-MW-3	Temperature	5/25/2022 14:47	21.59	C
BY-AP-MW-3	Turbidity	5/25/2022 14:47	0.94	NTU
BY-AP-MW-3	Conductivity	5/25/2022 14:52	62.71	uS/cm
BY-AP-MW-3	DO	5/25/2022 14:52	1.54	mg/L
BY-AP-MW-3	Depth to Water Detail	5/25/2022 14:52	22.39	ft
BY-AP-MW-3	Oxidation Reduction Potention	5/25/2022 14:52	127.33	mv
BY-AP-MW-3	pH	5/25/2022 14:52	4.6	SU
BY-AP-MW-3	Temperature	5/25/2022 14:52	21.61	C
BY-AP-MW-3	Turbidity	5/25/2022 14:52	0.69	NTU
BY-AP-MW-3	Conductivity	5/25/2022 14:57	64.35	uS/cm
BY-AP-MW-3	DO	5/25/2022 14:57	1.58	mg/L
BY-AP-MW-3	Depth to Water Detail	5/25/2022 14:57	22.39	ft
BY-AP-MW-3	Oxidation Reduction Potention	5/25/2022 14:57	127.37	mv
BY-AP-MW-3	pH	5/25/2022 14:57	4.63	SU
BY-AP-MW-3	Temperature	5/25/2022 14:57	21.6	C
BY-AP-MW-3	Turbidity	5/25/2022 14:57	0.58	NTU
BY-AP-MW-3	Conductivity	5/25/2022 15:02	65.47	uS/cm
BY-AP-MW-3	DO	5/25/2022 15:02	1.61	mg/L
BY-AP-MW-3	Depth to Water Detail	5/25/2022 15:02	22.39	ft
BY-AP-MW-3	Oxidation Reduction Potention	5/25/2022 15:02	129.55	mv
BY-AP-MW-3	pH	5/25/2022 15:02	4.64	SU
BY-AP-MW-3	Sulfide	5/25/2022 15:02	0	mg/L
BY-AP-MW-3	Temperature	5/25/2022 15:02	21.52	C
BY-AP-MW-3	Turbidity	5/25/2022 15:02	0.66	NTU

BY-AP-MW-8	Conductivity	5/24/2022 10:31	507.15	uS/cm
BY-AP-MW-8	DO	5/24/2022 10:31	0.25	mg/L
BY-AP-MW-8	Depth to Water Detail	5/24/2022 10:31	23.18	ft
BY-AP-MW-8	Oxidation Reduction Potention	5/24/2022 10:31	0.57	mv
BY-AP-MW-8	pH	5/24/2022 10:31	5.54	SU
BY-AP-MW-8	Temperature	5/24/2022 10:31	21.66	C
BY-AP-MW-8	Turbidity	5/24/2022 10:31	2.81	NTU
BY-AP-MW-8	Conductivity	5/24/2022 10:36	507.6	uS/cm
BY-AP-MW-8	DO	5/24/2022 10:36	0.21	mg/L
BY-AP-MW-8	Depth to Water Detail	5/24/2022 10:36	23.18	ft
BY-AP-MW-8	Oxidation Reduction Potention	5/24/2022 10:36	-6.42	mv
BY-AP-MW-8	pH	5/24/2022 10:36	5.54	SU
BY-AP-MW-8	Temperature	5/24/2022 10:36	21.62	C
BY-AP-MW-8	Turbidity	5/24/2022 10:36	3.21	NTU
BY-AP-MW-8	Conductivity	5/24/2022 10:41	508.22	uS/cm
BY-AP-MW-8	DO	5/24/2022 10:41	0.2	mg/L
BY-AP-MW-8	Depth to Water Detail	5/24/2022 10:41	23.18	ft
BY-AP-MW-8	Oxidation Reduction Potention	5/24/2022 10:41	-11.69	mv
BY-AP-MW-8	pH	5/24/2022 10:41	5.56	SU
BY-AP-MW-8	Temperature	5/24/2022 10:41	21.6	C
BY-AP-MW-8	Turbidity	5/24/2022 10:41	3.06	NTU
BY-AP-MW-8	Conductivity	5/24/2022 10:46	508.1	uS/cm
BY-AP-MW-8	DO	5/24/2022 10:46	0.19	mg/L
BY-AP-MW-8	Depth to Water Detail	5/24/2022 10:46	23.18	ft
BY-AP-MW-8	Oxidation Reduction Potention	5/24/2022 10:46	-16.23	mv
BY-AP-MW-8	pH	5/24/2022 10:46	5.6	SU
BY-AP-MW-8	Sulfide	5/24/2022 10:46	0	mg/L
BY-AP-MW-8	Temperature	5/24/2022 10:46	21.81	C
BY-AP-MW-8	Turbidity	5/24/2022 10:46	3.51	NTU

BY-AP-MW-8V	Conductivity	5/23/2022 17:08	560.66	uS/cm
BY-AP-MW-8V	DO	5/23/2022 17:08	0.28	mg/L
BY-AP-MW-8V	Depth to Water Detail	5/23/2022 17:08	22.36	ft
BY-AP-MW-8V	Oxidation Reduction Potention	5/23/2022 17:08	-23.87	mv
BY-AP-MW-8V	pH	5/23/2022 17:08	5.95	SU
BY-AP-MW-8V	Temperature	5/23/2022 17:08	20.85	C
BY-AP-MW-8V	Turbidity	5/23/2022 17:08	1.07	NTU
BY-AP-MW-8V	Conductivity	5/23/2022 17:13	557.28	uS/cm
BY-AP-MW-8V	DO	5/23/2022 17:13	0.25	mg/L
BY-AP-MW-8V	Depth to Water Detail	5/23/2022 17:13	22.36	ft
BY-AP-MW-8V	Oxidation Reduction Potention	5/23/2022 17:13	-19.98	mv
BY-AP-MW-8V	pH	5/23/2022 17:13	5.96	SU
BY-AP-MW-8V	Temperature	5/23/2022 17:13	20.85	C
BY-AP-MW-8V	Turbidity	5/23/2022 17:13	1.21	NTU
BY-AP-MW-8V	Conductivity	5/23/2022 17:18	556.98	uS/cm
BY-AP-MW-8V	DO	5/23/2022 17:18	0.24	mg/L
BY-AP-MW-8V	Depth to Water Detail	5/23/2022 17:18	22.36	ft
BY-AP-MW-8V	Oxidation Reduction Potention	5/23/2022 17:18	-22.12	mv
BY-AP-MW-8V	pH	5/23/2022 17:18	6.02	SU
BY-AP-MW-8V	Temperature	5/23/2022 17:18	20.88	C
BY-AP-MW-8V	Turbidity	5/23/2022 17:18	1.37	NTU
BY-AP-MW-8V	Conductivity	5/23/2022 17:23	557.51	uS/cm
BY-AP-MW-8V	DO	5/23/2022 17:23	0.24	mg/L
BY-AP-MW-8V	Depth to Water Detail	5/23/2022 17:23	22.36	ft
BY-AP-MW-8V	Oxidation Reduction Potention	5/23/2022 17:23	-24.72	mv
BY-AP-MW-8V	pH	5/23/2022 17:23	6.08	SU
BY-AP-MW-8V	Sulfide	5/23/2022 17:23	0	mg/L
BY-AP-MW-8V	Temperature	5/23/2022 17:23	20.86	C
BY-AP-MW-8V	Turbidity	5/23/2022 17:23	1.61	NTU

BY-AP-MW-10	Conductivity	5/24/2022 12:28	682.36	uS/cm
BY-AP-MW-10	DO	5/24/2022 12:28	0.38	mg/L
BY-AP-MW-10	Depth to Water Detail	5/24/2022 12:28	22.1	ft
BY-AP-MW-10	Oxidation Reduction Potention	5/24/2022 12:28	0.34	mv
BY-AP-MW-10	pH	5/24/2022 12:28	5.7	SU
BY-AP-MW-10	Temperature	5/24/2022 12:28	21.45	C
BY-AP-MW-10	Turbidity	5/24/2022 12:28	6.35	NTU
BY-AP-MW-10	Conductivity	5/24/2022 12:33	680.88	uS/cm
BY-AP-MW-10	DO	5/24/2022 12:33	0.34	mg/L
BY-AP-MW-10	Depth to Water Detail	5/24/2022 12:33	22.1	ft
BY-AP-MW-10	Oxidation Reduction Potention	5/24/2022 12:33	-8.82	mv
BY-AP-MW-10	pH	5/24/2022 12:33	5.74	SU
BY-AP-MW-10	Temperature	5/24/2022 12:33	21.44	C
BY-AP-MW-10	Turbidity	5/24/2022 12:33	0.21	NTU
BY-AP-MW-10	Conductivity	5/24/2022 12:38	680.76	uS/cm
BY-AP-MW-10	DO	5/24/2022 12:38	0.33	mg/L
BY-AP-MW-10	Depth to Water Detail	5/24/2022 12:38	22.1	ft
BY-AP-MW-10	Oxidation Reduction Potention	5/24/2022 12:38	-13.61	mv
BY-AP-MW-10	pH	5/24/2022 12:38	5.78	SU
BY-AP-MW-10	Temperature	5/24/2022 12:38	21.34	C
BY-AP-MW-10	Turbidity	5/24/2022 12:38	0.85	NTU
BY-AP-MW-10	Conductivity	5/24/2022 12:43	680.19	uS/cm
BY-AP-MW-10	DO	5/24/2022 12:43	0.32	mg/L
BY-AP-MW-10	Depth to Water Detail	5/24/2022 12:43	22.1	ft
BY-AP-MW-10	Oxidation Reduction Potention	5/24/2022 12:43	-17.07	mv
BY-AP-MW-10	pH	5/24/2022 12:43	5.81	SU
BY-AP-MW-10	Sulfide	5/24/2022 12:43	0	mg/L
BY-AP-MW-10	Temperature	5/24/2022 12:43	21.37	C
BY-AP-MW-10	Turbidity	5/24/2022 12:43	0.2	NTU

BY-AP-MW-10V	Conductivity	5/24/2022 14:24	733.27	uS/cm
BY-AP-MW-10V	DO	5/24/2022 14:24	0.22	mg/L
BY-AP-MW-10V	Depth to Water Detail	5/24/2022 14:24	23.06	ft
BY-AP-MW-10V	Oxidation Reduction Potention	5/24/2022 14:24	-14.11	mv
BY-AP-MW-10V	pH	5/24/2022 14:24	5.71	SU
BY-AP-MW-10V	Temperature	5/24/2022 14:24	21.42	C
BY-AP-MW-10V	Turbidity	5/24/2022 14:24	2.01	NTU
BY-AP-MW-10V	Conductivity	5/24/2022 14:26	733.38	uS/cm
BY-AP-MW-10V	DO	5/24/2022 14:26	0.2	mg/L
BY-AP-MW-10V	Depth to Water Detail	5/24/2022 14:26	23.06	ft
BY-AP-MW-10V	Oxidation Reduction Potention	5/24/2022 14:26	-19.81	mv
BY-AP-MW-10V	pH	5/24/2022 14:26	5.7	SU
BY-AP-MW-10V	Temperature	5/24/2022 14:26	21.49	C
BY-AP-MW-10V	Turbidity	5/24/2022 14:26	1.96	NTU
BY-AP-MW-10V	Conductivity	5/24/2022 14:31	728.42	uS/cm
BY-AP-MW-10V	DO	5/24/2022 14:31	0.19	mg/L
BY-AP-MW-10V	Depth to Water Detail	5/24/2022 14:31	23.06	ft
BY-AP-MW-10V	Oxidation Reduction Potention	5/24/2022 14:31	-28.53	mv
BY-AP-MW-10V	pH	5/24/2022 14:31	5.69	SU
BY-AP-MW-10V	Temperature	5/24/2022 14:31	21.48	C
BY-AP-MW-10V	Turbidity	5/24/2022 14:31	2.22	NTU
BY-AP-MW-10V	Conductivity	5/24/2022 14:36	727.36	uS/cm
BY-AP-MW-10V	DO	5/24/2022 14:36	0.18	mg/L
BY-AP-MW-10V	Depth to Water Detail	5/24/2022 14:36	23.06	ft
BY-AP-MW-10V	Oxidation Reduction Potention	5/24/2022 14:36	-35.68	mv
BY-AP-MW-10V	pH	5/24/2022 14:36	5.72	SU
BY-AP-MW-10V	Temperature	5/24/2022 14:36	21.45	C
BY-AP-MW-10V	Turbidity	5/24/2022 14:36	1.6	NTU
BY-AP-MW-10V	Conductivity	5/24/2022 14:41	726.04	uS/cm
BY-AP-MW-10V	DO	5/24/2022 14:41	0.19	mg/L
BY-AP-MW-10V	Depth to Water Detail	5/24/2022 14:41	23.06	ft
BY-AP-MW-10V	Oxidation Reduction Potention	5/24/2022 14:41	-41.2	mv
BY-AP-MW-10V	pH	5/24/2022 14:41	5.77	SU
BY-AP-MW-10V	Sulfide	5/24/2022 14:41	0	mg/L
BY-AP-MW-10V	Temperature	5/24/2022 14:41	21.44	C
BY-AP-MW-10V	Turbidity	5/24/2022 14:41	1.76	NTU

BY-AP-MW-13	Conductivity	5/24/2022 15:22	461.36	uS/cm
BY-AP-MW-13	DO	5/24/2022 15:22	0.26	mg/L
BY-AP-MW-13	Depth to Water Detail	5/24/2022 15:22	21.39	ft
BY-AP-MW-13	Oxidation Reduction Potention	5/24/2022 15:22	43.58	mv
BY-AP-MW-13	pH	5/24/2022 15:22	5.24	SU
BY-AP-MW-13	Temperature	5/24/2022 15:22	20.99	C
BY-AP-MW-13	Turbidity	5/24/2022 15:22	10.95	NTU
BY-AP-MW-13	Conductivity	5/24/2022 15:27	454.89	uS/cm
BY-AP-MW-13	DO	5/24/2022 15:27	0.23	mg/L
BY-AP-MW-13	Depth to Water Detail	5/24/2022 15:27	21.39	ft
BY-AP-MW-13	Oxidation Reduction Potention	5/24/2022 15:27	44.97	mv
BY-AP-MW-13	pH	5/24/2022 15:27	5.28	SU
BY-AP-MW-13	Temperature	5/24/2022 15:27	21.01	C
BY-AP-MW-13	Turbidity	5/24/2022 15:27	9.02	NTU
BY-AP-MW-13	Conductivity	5/24/2022 15:32	451.86	uS/cm
BY-AP-MW-13	DO	5/24/2022 15:32	0.24	mg/L
BY-AP-MW-13	Depth to Water Detail	5/24/2022 15:32	21.39	ft
BY-AP-MW-13	Oxidation Reduction Potention	5/24/2022 15:32	43.53	mv
BY-AP-MW-13	pH	5/24/2022 15:32	5.33	SU
BY-AP-MW-13	Temperature	5/24/2022 15:32	20.88	C
BY-AP-MW-13	Turbidity	5/24/2022 15:32	7.94	NTU
BY-AP-MW-13	Conductivity	5/24/2022 15:37	449.3	uS/cm
BY-AP-MW-13	DO	5/24/2022 15:37	0.23	mg/L
BY-AP-MW-13	Depth to Water Detail	5/24/2022 15:37	21.39	ft
BY-AP-MW-13	Oxidation Reduction Potention	5/24/2022 15:37	41.91	mv
BY-AP-MW-13	pH	5/24/2022 15:37	5.39	SU
BY-AP-MW-13	Temperature	5/24/2022 15:37	20.76	C
BY-AP-MW-13	Turbidity	5/24/2022 15:37	6.45	NTU
BY-AP-MW-13	Conductivity	5/24/2022 15:42	447.43	uS/cm
BY-AP-MW-13	DO	5/24/2022 15:42	0.23	mg/L
BY-AP-MW-13	Depth to Water Detail	5/24/2022 15:42	21.39	ft
BY-AP-MW-13	Oxidation Reduction Potention	5/24/2022 15:42	40.11	mv
BY-AP-MW-13	pH	5/24/2022 15:42	5.44	SU
BY-AP-MW-13	Temperature	5/24/2022 15:42	20.82	C
BY-AP-MW-13	Turbidity	5/24/2022 15:42	5.51	NTU
BY-AP-MW-13	Conductivity	5/24/2022 15:47	446.28	uS/cm
BY-AP-MW-13	DO	5/24/2022 15:47	0.22	mg/L
BY-AP-MW-13	Depth to Water Detail	5/24/2022 15:47	21.39	ft
BY-AP-MW-13	Oxidation Reduction Potention	5/24/2022 15:47	38.41	mv
BY-AP-MW-13	pH	5/24/2022 15:47	5.48	SU
BY-AP-MW-13	Temperature	5/24/2022 15:47	20.83	C
BY-AP-MW-13	Turbidity	5/24/2022 15:47	5.15	NTU
BY-AP-MW-13	Conductivity	5/24/2022 15:52	445.45	uS/cm
BY-AP-MW-13	DO	5/24/2022 15:52	0.23	mg/L
BY-AP-MW-13	Depth to Water Detail	5/24/2022 15:52	21.39	ft
BY-AP-MW-13	Oxidation Reduction Potention	5/24/2022 15:52	36.78	mv
BY-AP-MW-13	pH	5/24/2022 15:52	5.5	SU
BY-AP-MW-13	Sulfide	5/24/2022 15:52	0	mg/L
BY-AP-MW-13	Temperature	5/24/2022 15:52	20.79	C
BY-AP-MW-13	Turbidity	5/24/2022 15:52	4.94	NTU

BY-AP-MW-17H	Conductivity	5/25/2022 11:05	390.74	uS/cm
BY-AP-MW-17H	DO	5/25/2022 11:05	0.34	mg/L
BY-AP-MW-17H	Depth to Water Detail	5/25/2022 11:05	17.14	ft
BY-AP-MW-17H	Oxidation Reduction Potention	5/25/2022 11:05	46.02	mv
BY-AP-MW-17H	pH	5/25/2022 11:05	6.02	SU
BY-AP-MW-17H	Temperature	5/25/2022 11:05	21.64	C
BY-AP-MW-17H	Turbidity	5/25/2022 11:05	3.85	NTU
BY-AP-MW-17H	Conductivity	5/25/2022 11:10	390.86	uS/cm
BY-AP-MW-17H	DO	5/25/2022 11:10	0.31	mg/L
BY-AP-MW-17H	Depth to Water Detail	5/25/2022 11:10	17.14	ft
BY-AP-MW-17H	Oxidation Reduction Potention	5/25/2022 11:10	15.83	mv
BY-AP-MW-17H	pH	5/25/2022 11:10	6.11	SU
BY-AP-MW-17H	Temperature	5/25/2022 11:10	21.62	C
BY-AP-MW-17H	Turbidity	5/25/2022 11:10	3.11	NTU
BY-AP-MW-17H	Conductivity	5/25/2022 11:15	389.74	uS/cm
BY-AP-MW-17H	DO	5/25/2022 11:15	0.3	mg/L
BY-AP-MW-17H	Depth to Water Detail	5/25/2022 11:15	17.14	ft
BY-AP-MW-17H	Oxidation Reduction Potention	5/25/2022 11:15	-4.07	mv
BY-AP-MW-17H	pH	5/25/2022 11:15	6.16	SU
BY-AP-MW-17H	Temperature	5/25/2022 11:15	21.67	C
BY-AP-MW-17H	Turbidity	5/25/2022 11:15	2.91	NTU
BY-AP-MW-17H	Conductivity	5/25/2022 11:20	388.95	uS/cm
BY-AP-MW-17H	DO	5/25/2022 11:20	0.29	mg/L
BY-AP-MW-17H	Depth to Water Detail	5/25/2022 11:20	17.14	ft
BY-AP-MW-17H	Oxidation Reduction Potention	5/25/2022 11:20	-16.59	mv
BY-AP-MW-17H	pH	5/25/2022 11:20	6.21	SU
BY-AP-MW-17H	Sulfide	5/25/2022 11:20	0	mg/L
BY-AP-MW-17H	Temperature	5/25/2022 11:20	21.46	C
BY-AP-MW-17H	Turbidity	5/25/2022 11:20	2.84	NTU

BY-AP-MW-17V	Conductivity	5/25/2022 10:16	2097.06	uS/cm
BY-AP-MW-17V	DO	5/25/2022 10:16	0.45	mg/L
BY-AP-MW-17V	Depth to Water Detail	5/25/2022 10:16	17.53	ft
BY-AP-MW-17V	Oxidation Reduction Potention	5/25/2022 10:16	132.02	mv
BY-AP-MW-17V	pH	5/25/2022 10:16	6.4	SU
BY-AP-MW-17V	Temperature	5/25/2022 10:16	21.63	C
BY-AP-MW-17V	Turbidity	5/25/2022 10:16	7.57	NTU
BY-AP-MW-17V	Conductivity	5/25/2022 10:21	2160.09	uS/cm
BY-AP-MW-17V	DO	5/25/2022 10:21	0.42	mg/L
BY-AP-MW-17V	Depth to Water Detail	5/25/2022 10:21	17.53	ft
BY-AP-MW-17V	Oxidation Reduction Potention	5/25/2022 10:21	128.17	mv
BY-AP-MW-17V	pH	5/25/2022 10:21	6.38	SU
BY-AP-MW-17V	Temperature	5/25/2022 10:21	21.69	C
BY-AP-MW-17V	Turbidity	5/25/2022 10:21	1.61	NTU
BY-AP-MW-17V	Conductivity	5/25/2022 10:26	2222.08	uS/cm
BY-AP-MW-17V	DO	5/25/2022 10:26	0.4	mg/L
BY-AP-MW-17V	Depth to Water Detail	5/25/2022 10:26	17.53	ft
BY-AP-MW-17V	Oxidation Reduction Potention	5/25/2022 10:26	124.38	mv
BY-AP-MW-17V	pH	5/25/2022 10:26	6.37	SU
BY-AP-MW-17V	Temperature	5/25/2022 10:26	21.73	C
BY-AP-MW-17V	Turbidity	5/25/2022 10:26	1.49	NTU
BY-AP-MW-17V	Conductivity	5/25/2022 10:31	2293.2	uS/cm
BY-AP-MW-17V	DO	5/25/2022 10:31	0.39	mg/L
BY-AP-MW-17V	Depth to Water Detail	5/25/2022 10:31	17.53	ft
BY-AP-MW-17V	Oxidation Reduction Potention	5/25/2022 10:31	120.38	mv
BY-AP-MW-17V	pH	5/25/2022 10:31	6.36	SU
BY-AP-MW-17V	Temperature	5/25/2022 10:31	21.81	C
BY-AP-MW-17V	Turbidity	5/25/2022 10:31	1.58	NTU
BY-AP-MW-17V	Conductivity	5/25/2022 10:36	2332.61	uS/cm
BY-AP-MW-17V	DO	5/25/2022 10:36	0.39	mg/L
BY-AP-MW-17V	Depth to Water Detail	5/25/2022 10:36	17.53	ft
BY-AP-MW-17V	Oxidation Reduction Potention	5/25/2022 10:36	116.46	mv
BY-AP-MW-17V	pH	5/25/2022 10:36	6.34	SU
BY-AP-MW-17V	Sulfide	5/25/2022 10:36	0	mg/L
BY-AP-MW-17V	Temperature	5/25/2022 10:36	21.85	C
BY-AP-MW-17V	Turbidity	5/25/2022 10:36	1.38	NTU

BY-AP-MW-20H	Conductivity	5/23/2022 15:30	777.18	uS/cm
BY-AP-MW-20H	DO	5/23/2022 15:30	0.16	mg/L
BY-AP-MW-20H	Depth to Water Detail	5/23/2022 15:30	6.9	ft
BY-AP-MW-20H	Oxidation Reduction Potention	5/23/2022 15:30	-50.64	mv
BY-AP-MW-20H	pH	5/23/2022 15:30	6.01	SU
BY-AP-MW-20H	Temperature	5/23/2022 15:30	20	C
BY-AP-MW-20H	Turbidity	5/23/2022 15:30	4.81	NTU
BY-AP-MW-20H	Conductivity	5/23/2022 15:35	780.55	uS/cm
BY-AP-MW-20H	DO	5/23/2022 15:35	0.14	mg/L
BY-AP-MW-20H	Depth to Water Detail	5/23/2022 15:35	6.9	ft
BY-AP-MW-20H	Oxidation Reduction Potention	5/23/2022 15:35	-50.56	mv
BY-AP-MW-20H	pH	5/23/2022 15:35	6.03	SU
BY-AP-MW-20H	Temperature	5/23/2022 15:35	19.98	C
BY-AP-MW-20H	Turbidity	5/23/2022 15:35	2.17	NTU
BY-AP-MW-20H	Conductivity	5/23/2022 15:40	781.72	uS/cm
BY-AP-MW-20H	DO	5/23/2022 15:40	0.12	mg/L
BY-AP-MW-20H	Depth to Water Detail	5/23/2022 15:40	6.9	ft
BY-AP-MW-20H	Oxidation Reduction Potention	5/23/2022 15:40	-54.17	mv
BY-AP-MW-20H	pH	5/23/2022 15:40	6.11	SU
BY-AP-MW-20H	Temperature	5/23/2022 15:40	19.97	C
BY-AP-MW-20H	Turbidity	5/23/2022 15:40	1.88	NTU
BY-AP-MW-20H	Conductivity	5/23/2022 15:45	784.43	uS/cm
BY-AP-MW-20H	DO	5/23/2022 15:45	0.12	mg/L
BY-AP-MW-20H	Depth to Water Detail	5/23/2022 15:45	6.9	ft
BY-AP-MW-20H	Oxidation Reduction Potention	5/23/2022 15:45	-56.87	mv
BY-AP-MW-20H	pH	5/23/2022 15:45	6.15	SU
BY-AP-MW-20H	Sulfide	5/23/2022 15:45	0	mg/L
BY-AP-MW-20H	Temperature	5/23/2022 15:45	19.98	C
BY-AP-MW-20H	Turbidity	5/23/2022 15:45	1.75	NTU

BY-AP-MW-22H	Conductivity	5/24/2022 8:56	658.54	uS/cm
BY-AP-MW-22H	DO	5/24/2022 8:56	0.23	mg/L
BY-AP-MW-22H	Depth to Water Detail	5/24/2022 8:56	6.04	ft
BY-AP-MW-22H	Oxidation Reduction Potention	5/24/2022 8:56	-57.07	mv
BY-AP-MW-22H	pH	5/24/2022 8:56	6.4	SU
BY-AP-MW-22H	Temperature	5/24/2022 8:56	20.27	C
BY-AP-MW-22H	Turbidity	5/24/2022 8:56	8.4	NTU
BY-AP-MW-22H	Conductivity	5/24/2022 9:01	661.62	uS/cm
BY-AP-MW-22H	DO	5/24/2022 9:01	0.19	mg/L
BY-AP-MW-22H	Depth to Water Detail	5/24/2022 9:01	6.04	ft
BY-AP-MW-22H	Oxidation Reduction Potention	5/24/2022 9:01	-60.21	mv
BY-AP-MW-22H	pH	5/24/2022 9:01	6.45	SU
BY-AP-MW-22H	Temperature	5/24/2022 9:01	20.27	C
BY-AP-MW-22H	Turbidity	5/24/2022 9:01	3.29	NTU
BY-AP-MW-22H	Conductivity	5/24/2022 9:06	669.21	uS/cm
BY-AP-MW-22H	DO	5/24/2022 9:06	0.17	mg/L
BY-AP-MW-22H	Depth to Water Detail	5/24/2022 9:06	6.04	ft
BY-AP-MW-22H	Oxidation Reduction Potention	5/24/2022 9:06	-67.03	mv
BY-AP-MW-22H	pH	5/24/2022 9:06	6.54	SU
BY-AP-MW-22H	Temperature	5/24/2022 9:06	20.28	C
BY-AP-MW-22H	Turbidity	5/24/2022 9:06	2.96	NTU
BY-AP-MW-22H	Conductivity	5/24/2022 9:11	669.92	uS/cm
BY-AP-MW-22H	DO	5/24/2022 9:11	0.17	mg/L
BY-AP-MW-22H	Depth to Water Detail	5/24/2022 9:11	6.04	ft
BY-AP-MW-22H	Oxidation Reduction Potention	5/24/2022 9:11	-70.67	mv
BY-AP-MW-22H	pH	5/24/2022 9:11	6.57	SU
BY-AP-MW-22H	Sulfide	5/24/2022 9:11	0	mg/L
BY-AP-MW-22H	Temperature	5/24/2022 9:11	20.28	C
BY-AP-MW-22H	Turbidity	5/24/2022 9:11	2.32	NTU

BY-AP-MW-23H	Conductivity	5/25/2022 13:25	469.22	uS/cm
BY-AP-MW-23H	DO	5/25/2022 13:25	0.31	mg/L
BY-AP-MW-23H	Depth to Water Detail	5/25/2022 13:25	7.91	ft
BY-AP-MW-23H	Oxidation Reduction Potention	5/25/2022 13:25	21.15	mv
BY-AP-MW-23H	pH	5/25/2022 13:25	5.78	SU
BY-AP-MW-23H	Temperature	5/25/2022 13:25	20.08	C
BY-AP-MW-23H	Turbidity	5/25/2022 13:25	2.58	NTU
BY-AP-MW-23H	Conductivity	5/25/2022 13:30	460.99	uS/cm
BY-AP-MW-23H	DO	5/25/2022 13:30	0.26	mg/L
BY-AP-MW-23H	Depth to Water Detail	5/25/2022 13:30	7.91	ft
BY-AP-MW-23H	Oxidation Reduction Potention	5/25/2022 13:30	18.83	mv
BY-AP-MW-23H	pH	5/25/2022 13:30	5.74	SU
BY-AP-MW-23H	Temperature	5/25/2022 13:30	20.07	C
BY-AP-MW-23H	Turbidity	5/25/2022 13:30	2.66	NTU
BY-AP-MW-23H	Conductivity	5/25/2022 13:35	446.96	uS/cm
BY-AP-MW-23H	DO	5/25/2022 13:35	0.24	mg/L
BY-AP-MW-23H	Depth to Water Detail	5/25/2022 13:35	7.91	ft
BY-AP-MW-23H	Oxidation Reduction Potention	5/25/2022 13:35	12.76	mv
BY-AP-MW-23H	pH	5/25/2022 13:35	5.78	SU
BY-AP-MW-23H	Temperature	5/25/2022 13:35	20.09	C
BY-AP-MW-23H	Turbidity	5/25/2022 13:35	1.95	NTU
BY-AP-MW-23H	Conductivity	5/25/2022 13:40	425.4	uS/cm
BY-AP-MW-23H	DO	5/25/2022 13:40	0.23	mg/L
BY-AP-MW-23H	Depth to Water Detail	5/25/2022 13:40	7.91	ft
BY-AP-MW-23H	Oxidation Reduction Potention	5/25/2022 13:40	6.78	mv
BY-AP-MW-23H	pH	5/25/2022 13:40	5.81	SU
BY-AP-MW-23H	Temperature	5/25/2022 13:40	20.15	C
BY-AP-MW-23H	Turbidity	5/25/2022 13:40	2.72	NTU
BY-AP-MW-23H	Conductivity	5/25/2022 13:45	429.7	uS/cm
BY-AP-MW-23H	DO	5/25/2022 13:45	0.22	mg/L
BY-AP-MW-23H	Depth to Water Detail	5/25/2022 13:45	7.91	ft
BY-AP-MW-23H	Oxidation Reduction Potention	5/25/2022 13:45	2.27	mv
BY-AP-MW-23H	pH	5/25/2022 13:45	5.87	SU
BY-AP-MW-23H	Temperature	5/25/2022 13:45	20.15	C
BY-AP-MW-23H	Turbidity	5/25/2022 13:45	2.36	NTU
BY-AP-MW-23H	Conductivity	5/25/2022 13:50	411.87	uS/cm
BY-AP-MW-23H	DO	5/25/2022 13:50	0.22	mg/L
BY-AP-MW-23H	Depth to Water Detail	5/25/2022 13:50	7.91	ft
BY-AP-MW-23H	Oxidation Reduction Potention	5/25/2022 13:50	-1.91	mv
BY-AP-MW-23H	pH	5/25/2022 13:50	5.92	SU
BY-AP-MW-23H	Sulfide	5/25/2022 13:50	0	mg/L
BY-AP-MW-23H	Temperature	5/25/2022 13:50	20.16	C
BY-AP-MW-23H	Turbidity	5/25/2022 13:50	1.45	NTU

BY-AP-MW-23V	Conductivity	5/25/2022 12:27	625.35	uS/cm
BY-AP-MW-23V	DO	5/25/2022 12:27	0.52	mg/L
BY-AP-MW-23V	Depth to Water Detail	5/25/2022 12:27	12.47	ft
BY-AP-MW-23V	Oxidation Reduction Potention	5/25/2022 12:27	42.94	mv
BY-AP-MW-23V	pH	5/25/2022 12:27	6.85	SU
BY-AP-MW-23V	Temperature	5/25/2022 12:27	20.61	C
BY-AP-MW-23V	Turbidity	5/25/2022 12:27	4.93	NTU
BY-AP-MW-23V	Conductivity	5/25/2022 12:32	633.32	uS/cm
BY-AP-MW-23V	DO	5/25/2022 12:32	0.47	mg/L
BY-AP-MW-23V	Depth to Water Detail	5/25/2022 12:32	12.47	ft
BY-AP-MW-23V	Oxidation Reduction Potention	5/25/2022 12:32	20.6	mv
BY-AP-MW-23V	pH	5/25/2022 12:32	7.11	SU
BY-AP-MW-23V	Temperature	5/25/2022 12:32	20.63	C
BY-AP-MW-23V	Turbidity	5/25/2022 12:32	1.91	NTU
BY-AP-MW-23V	Conductivity	5/25/2022 12:37	635.02	uS/cm
BY-AP-MW-23V	DO	5/25/2022 12:37	0.46	mg/L
BY-AP-MW-23V	Depth to Water Detail	5/25/2022 12:37	12.47	ft
BY-AP-MW-23V	Oxidation Reduction Potention	5/25/2022 12:37	-1.37	mv
BY-AP-MW-23V	pH	5/25/2022 12:37	7.25	SU
BY-AP-MW-23V	Temperature	5/25/2022 12:37	20.61	C
BY-AP-MW-23V	Turbidity	5/25/2022 12:37	2.06	NTU
BY-AP-MW-23V	Conductivity	5/25/2022 12:42	635.81	uS/cm
BY-AP-MW-23V	DO	5/25/2022 12:42	0.45	mg/L
BY-AP-MW-23V	Depth to Water Detail	5/25/2022 12:42	12.47	ft
BY-AP-MW-23V	Oxidation Reduction Potention	5/25/2022 12:42	-20.8	mv
BY-AP-MW-23V	pH	5/25/2022 12:42	7.36	SU
BY-AP-MW-23V	Temperature	5/25/2022 12:42	20.56	C
BY-AP-MW-23V	Turbidity	5/25/2022 12:42	2.15	NTU
BY-AP-MW-23V	Conductivity	5/25/2022 12:47	636.87	uS/cm
BY-AP-MW-23V	DO	5/25/2022 12:47	0.44	mg/L
BY-AP-MW-23V	Depth to Water Detail	5/25/2022 12:47	12.47	ft
BY-AP-MW-23V	Oxidation Reduction Potention	5/25/2022 12:47	-36.42	mv
BY-AP-MW-23V	pH	5/25/2022 12:47	7.44	SU
BY-AP-MW-23V	Sulfide	5/25/2022 12:47	0	mg/L
BY-AP-MW-23V	Temperature	5/25/2022 12:47	20.55	C
BY-AP-MW-23V	Turbidity	5/25/2022 12:47	2.11	NTU

BY-AP-MW-4	Conductivity	5/25/2022 15:18	73.31	uS/cm
BY-AP-MW-4	DO	5/25/2022 15:18	1.39	mg/L
BY-AP-MW-4	Depth to Water Detail	5/25/2022 15:18	23.06	ft
BY-AP-MW-4	Oxidation Reduction Potention	5/25/2022 15:18	192.54	mv
BY-AP-MW-4	pH	5/25/2022 15:18	4.45	SU
BY-AP-MW-4	Temperature	5/25/2022 15:18	22.62	C
BY-AP-MW-4	Turbidity	5/25/2022 15:18	1.54	NTU
BY-AP-MW-4	Conductivity	5/25/2022 15:23	72.88	uS/cm
BY-AP-MW-4	DO	5/25/2022 15:23	1.3	mg/L
BY-AP-MW-4	Depth to Water Detail	5/25/2022 15:23	23.06	ft
BY-AP-MW-4	Oxidation Reduction Potention	5/25/2022 15:23	206.52	mv
BY-AP-MW-4	pH	5/25/2022 15:23	4.53	SU
BY-AP-MW-4	Temperature	5/25/2022 15:23	22.51	C
BY-AP-MW-4	Turbidity	5/25/2022 15:23	1.52	NTU
BY-AP-MW-4	Conductivity	5/25/2022 15:28	73.22	uS/cm
BY-AP-MW-4	DO	5/25/2022 15:28	1.32	mg/L
BY-AP-MW-4	Depth to Water Detail	5/25/2022 15:28	23.06	ft
BY-AP-MW-4	Oxidation Reduction Potention	5/25/2022 15:28	218.48	mv
BY-AP-MW-4	pH	5/25/2022 15:28	4.56	SU
BY-AP-MW-4	Temperature	5/25/2022 15:28	22.64	C
BY-AP-MW-4	Turbidity	5/25/2022 15:28	1.48	NTU
BY-AP-MW-4	Conductivity	5/25/2022 15:33	72.52	uS/cm
BY-AP-MW-4	DO	5/25/2022 15:33	1.3	mg/L
BY-AP-MW-4	Depth to Water Detail	5/25/2022 15:33	23.06	ft
BY-AP-MW-4	Oxidation Reduction Potention	5/25/2022 15:33	226.63	mv
BY-AP-MW-4	pH	5/25/2022 15:33	4.6	SU
BY-AP-MW-4	Sulfide	5/25/2022 15:33	0	mg/L
BY-AP-MW-4	Temperature	5/25/2022 15:33	22.57	C
BY-AP-MW-4	Turbidity	5/25/2022 15:33	1.54	NTU

BY-AP-MW-16	Conductivity	5/25/2022 14:36	469.13	uS/cm
BY-AP-MW-16	DO	5/25/2022 14:36	0.08	mg/L
BY-AP-MW-16	Depth to Water Detail	5/25/2022 14:36	21.32	ft
BY-AP-MW-16	Oxidation Reduction Potention	5/25/2022 14:36	5.15	mv
BY-AP-MW-16	pH	5/25/2022 14:36	5.7	SU
BY-AP-MW-16	Temperature	5/25/2022 14:36	22.17	C
BY-AP-MW-16	Turbidity	5/25/2022 14:36	2.82	NTU
BY-AP-MW-16	Conductivity	5/25/2022 14:41	475.8	uS/cm
BY-AP-MW-16	DO	5/25/2022 14:41	0.09	mg/L
BY-AP-MW-16	Depth to Water Detail	5/25/2022 14:41	21.32	ft
BY-AP-MW-16	Oxidation Reduction Potention	5/25/2022 14:41	0.78	mv
BY-AP-MW-16	pH	5/25/2022 14:41	5.73	SU
BY-AP-MW-16	Temperature	5/25/2022 14:41	22.23	C
BY-AP-MW-16	Turbidity	5/25/2022 14:41	1.75	NTU
BY-AP-MW-16	Conductivity	5/25/2022 14:46	478.13	uS/cm
BY-AP-MW-16	DO	5/25/2022 14:46	0.09	mg/L
BY-AP-MW-16	Depth to Water Detail	5/25/2022 14:46	21.32	ft
BY-AP-MW-16	Oxidation Reduction Potention	5/25/2022 14:46	-1.73	mv
BY-AP-MW-16	pH	5/25/2022 14:46	5.73	SU
BY-AP-MW-16	Temperature	5/25/2022 14:46	22.15	C
BY-AP-MW-16	Turbidity	5/25/2022 14:46	1.63	NTU
BY-AP-MW-16	Conductivity	5/25/2022 14:51	474.44	uS/cm
BY-AP-MW-16	DO	5/25/2022 14:51	0.09	mg/L
BY-AP-MW-16	Depth to Water Detail	5/25/2022 14:51	21.32	ft
BY-AP-MW-16	Oxidation Reduction Potention	5/25/2022 14:51	-3.49	mv
BY-AP-MW-16	pH	5/25/2022 14:51	5.74	SU
BY-AP-MW-16	Sulfide	5/25/2022 14:51	0	mg/L
BY-AP-MW-16	Temperature	5/25/2022 14:51	22.27	C
BY-AP-MW-16	Turbidity	5/25/2022 14:51	1.8	NTU

BY-AP-MW-16V	Conductivity	5/25/2022 13:48	316.69	uS/cm
BY-AP-MW-16V	DO	5/25/2022 13:48	0.45	mg/L
BY-AP-MW-16V	Depth to Water Detail	5/25/2022 13:48	19.98	ft
BY-AP-MW-16V	Oxidation Reduction Potention	5/25/2022 13:48	115.47	mv
BY-AP-MW-16V	pH	5/25/2022 13:48	5.18	SU
BY-AP-MW-16V	Temperature	5/25/2022 13:48	22.11	C
BY-AP-MW-16V	Turbidity	5/25/2022 13:48	3.45	NTU
BY-AP-MW-16V	Conductivity	5/25/2022 13:53	308.91	uS/cm
BY-AP-MW-16V	DO	5/25/2022 13:53	0.4	mg/L
BY-AP-MW-16V	Depth to Water Detail	5/25/2022 13:53	19.98	ft
BY-AP-MW-16V	Oxidation Reduction Potention	5/25/2022 13:53	116.69	mv
BY-AP-MW-16V	pH	5/25/2022 13:53	5.22	SU
BY-AP-MW-16V	Temperature	5/25/2022 13:53	22.24	C
BY-AP-MW-16V	Turbidity	5/25/2022 13:53	1.83	NTU
BY-AP-MW-16V	Conductivity	5/25/2022 13:58	317.04	uS/cm
BY-AP-MW-16V	DO	5/25/2022 13:58	0.39	mg/L
BY-AP-MW-16V	Depth to Water Detail	5/25/2022 13:58	19.98	ft
BY-AP-MW-16V	Oxidation Reduction Potention	5/25/2022 13:58	116.86	mv
BY-AP-MW-16V	pH	5/25/2022 13:58	5.25	SU
BY-AP-MW-16V	Temperature	5/25/2022 13:58	22.33	C
BY-AP-MW-16V	Turbidity	5/25/2022 13:58	1.6	NTU
BY-AP-MW-16V	Conductivity	5/25/2022 14:03	318.16	uS/cm
BY-AP-MW-16V	DO	5/25/2022 14:03	0.39	mg/L
BY-AP-MW-16V	Depth to Water Detail	5/25/2022 14:03	19.98	ft
BY-AP-MW-16V	Oxidation Reduction Potention	5/25/2022 14:03	117.25	mv
BY-AP-MW-16V	pH	5/25/2022 14:03	5.26	SU
BY-AP-MW-16V	Sulfide	5/25/2022 14:03	0	mg/L
BY-AP-MW-16V	Temperature	5/25/2022 14:03	22.23	C
BY-AP-MW-16V	Turbidity	5/25/2022 14:03	1.38	NTU

BY-AP-MW-15	Conductivity	5/25/2022 12:50	596.28	uS/cm
BY-AP-MW-15	DO	5/25/2022 12:50	0.11	mg/L
BY-AP-MW-15	Depth to Water Detail	5/25/2022 12:50	20.63	ft
BY-AP-MW-15	Oxidation Reduction Potention	5/25/2022 12:50	-118.55	mv
BY-AP-MW-15	pH	5/25/2022 12:50	6.7	SU
BY-AP-MW-15	Temperature	5/25/2022 12:50	21.73	C
BY-AP-MW-15	Turbidity	5/25/2022 12:50	11.4	NTU
BY-AP-MW-15	Conductivity	5/25/2022 12:55	573.11	uS/cm
BY-AP-MW-15	DO	5/25/2022 12:55	0.1	mg/L
BY-AP-MW-15	Depth to Water Detail	5/25/2022 12:55	20.63	ft
BY-AP-MW-15	Oxidation Reduction Potention	5/25/2022 12:55	-119.96	mv
BY-AP-MW-15	pH	5/25/2022 12:55	6.69	SU
BY-AP-MW-15	Temperature	5/25/2022 12:55	21.74	C
BY-AP-MW-15	Turbidity	5/25/2022 12:55	4.68	NTU
BY-AP-MW-15	Conductivity	5/25/2022 13:00	564.7	uS/cm
BY-AP-MW-15	DO	5/25/2022 13:00	0.09	mg/L
BY-AP-MW-15	Depth to Water Detail	5/25/2022 13:00	20.63	ft
BY-AP-MW-15	Oxidation Reduction Potention	5/25/2022 13:00	-120.56	mv
BY-AP-MW-15	pH	5/25/2022 13:00	6.7	SU
BY-AP-MW-15	Temperature	5/25/2022 13:00	21.8	C
BY-AP-MW-15	Turbidity	5/25/2022 13:00	5.02	NTU
BY-AP-MW-15	Conductivity	5/25/2022 13:05	564.84	uS/cm
BY-AP-MW-15	DO	5/25/2022 13:05	0.09	mg/L
BY-AP-MW-15	Depth to Water Detail	5/25/2022 13:05	20.63	ft
BY-AP-MW-15	Oxidation Reduction Potention	5/25/2022 13:05	-119.75	mv
BY-AP-MW-15	pH	5/25/2022 13:05	6.68	SU
BY-AP-MW-15	Sulfide	5/25/2022 13:05	0	mg/L
BY-AP-MW-15	Temperature	5/25/2022 13:05	21.92	C
BY-AP-MW-15	Turbidity	5/25/2022 13:05	3.64	NTU

BY-AP-MW-14	Conductivity	5/25/2022 11:38	525.4	uS/cm
BY-AP-MW-14	DO	5/25/2022 11:38	0.4	mg/L
BY-AP-MW-14	Depth to Water Detail	5/25/2022 11:38	9.42	ft
BY-AP-MW-14	Oxidation Reduction Potention	5/25/2022 11:38	-32.15	mv
BY-AP-MW-14	pH	5/25/2022 11:38	6.1	SU
BY-AP-MW-14	Temperature	5/25/2022 11:38	20.92	C
BY-AP-MW-14	Turbidity	5/25/2022 11:38	3.14	NTU
BY-AP-MW-14	Conductivity	5/25/2022 11:43	519.96	uS/cm
BY-AP-MW-14	DO	5/25/2022 11:43	0.36	mg/L
BY-AP-MW-14	Depth to Water Detail	5/25/2022 11:43	9.42	ft
BY-AP-MW-14	Oxidation Reduction Potention	5/25/2022 11:43	-34.08	mv
BY-AP-MW-14	pH	5/25/2022 11:43	6.13	SU
BY-AP-MW-14	Temperature	5/25/2022 11:43	20.61	C
BY-AP-MW-14	Turbidity	5/25/2022 11:43	3.47	NTU
BY-AP-MW-14	Conductivity	5/25/2022 11:48	515.57	uS/cm
BY-AP-MW-14	DO	5/25/2022 11:48	0.34	mg/L
BY-AP-MW-14	Depth to Water Detail	5/25/2022 11:48	9.42	ft
BY-AP-MW-14	Oxidation Reduction Potention	5/25/2022 11:48	-34.19	mv
BY-AP-MW-14	pH	5/25/2022 11:48	6.13	SU
BY-AP-MW-14	Temperature	5/25/2022 11:48	20.6	C
BY-AP-MW-14	Turbidity	5/25/2022 11:48	3.42	NTU
BY-AP-MW-14	Conductivity	5/25/2022 11:53	512.57	uS/cm
BY-AP-MW-14	DO	5/25/2022 11:53	0.33	mg/L
BY-AP-MW-14	Depth to Water Detail	5/25/2022 11:53	9.42	ft
BY-AP-MW-14	Oxidation Reduction Potention	5/25/2022 11:53	-33.94	mv
BY-AP-MW-14	pH	5/25/2022 11:53	6.14	SU
BY-AP-MW-14	Sulfide	5/25/2022 11:53	0	mg/L
BY-AP-MW-14	Temperature	5/25/2022 11:53	20.59	C
BY-AP-MW-14	Turbidity	5/25/2022 11:53	3.06	NTU

BY-AP-MW-13V	Conductivity	5/25/2022 10:05	562.11	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:05	0.2	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:05	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:05	-65.04	mv
BY-AP-MW-13V	pH	5/25/2022 10:05	6.38	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:05	20.77	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:05	11.1	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:10	521.84	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:10	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:10	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:10	-62.95	mv
BY-AP-MW-13V	pH	5/25/2022 10:10	6.35	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:10	20.76	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:10	4.45	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:15	491.75	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:15	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:15	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:15	-60.87	mv
BY-AP-MW-13V	pH	5/25/2022 10:15	6.33	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:15	20.72	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:15	2.72	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:20	474.84	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:20	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:20	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:20	-59.41	mv
BY-AP-MW-13V	pH	5/25/2022 10:20	6.33	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:20	20.72	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:20	2.55	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:25	458.91	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:25	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:25	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:25	-57.81	mv
BY-AP-MW-13V	pH	5/25/2022 10:25	6.32	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:25	20.88	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:25	2.95	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:30	446.58	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:30	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:30	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:30	-56.57	mv
BY-AP-MW-13V	pH	5/25/2022 10:30	6.32	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:30	21	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:30	2.12	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:35	527.9	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:35	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:35	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:35	-54.04	mv
BY-AP-MW-13V	pH	5/25/2022 10:35	6.29	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:35	20.93	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:35	2.76	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:40	564.08	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:40	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:40	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:40	-52.86	mv
BY-AP-MW-13V	pH	5/25/2022 10:40	6.28	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:40	20.96	C

BY-AP-MW-13V	Turbidity	5/25/2022 10:40	1.88	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:45	564.18	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:45	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:45	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:45	-52.3	mv
BY-AP-MW-13V	pH	5/25/2022 10:45	6.29	SU
BY-AP-MW-13V	Temperature	5/25/2022 10:45	20.92	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:45	1.66	NTU
BY-AP-MW-13V	Conductivity	5/25/2022 10:50	561.68	uS/cm
BY-AP-MW-13V	DO	5/25/2022 10:50	0.17	mg/L
BY-AP-MW-13V	Depth to Water Detail	5/25/2022 10:50	21.68	ft
BY-AP-MW-13V	Oxidation Reduction Potention	5/25/2022 10:50	-52.01	mv
BY-AP-MW-13V	pH	5/25/2022 10:50	6.3	SU
BY-AP-MW-13V	Sulfide	5/25/2022 10:50	0	mg/L
BY-AP-MW-13V	Temperature	5/25/2022 10:50	20.8	C
BY-AP-MW-13V	Turbidity	5/25/2022 10:50	2.04	NTU

BY-AP-MW-14V	Conductivity	5/24/2022 16:06	1066.31	uS/cm
BY-AP-MW-14V	DO	5/24/2022 16:06	0.54	mg/L
BY-AP-MW-14V	Depth to Water Detail	5/24/2022 16:06	22.15	ft
BY-AP-MW-14V	Oxidation Reduction Potention	5/24/2022 16:06	-124.62	mv
BY-AP-MW-14V	pH	5/24/2022 16:06	6.96	SU
BY-AP-MW-14V	Temperature	5/24/2022 16:06	21.81	C
BY-AP-MW-14V	Turbidity	5/24/2022 16:06	3.23	NTU
BY-AP-MW-14V	Conductivity	5/24/2022 16:11	982.38	uS/cm
BY-AP-MW-14V	DO	5/24/2022 16:11	0.45	mg/L
BY-AP-MW-14V	Depth to Water Detail	5/24/2022 16:11	22.15	ft
BY-AP-MW-14V	Oxidation Reduction Potention	5/24/2022 16:11	-104.88	mv
BY-AP-MW-14V	pH	5/24/2022 16:11	6.69	SU
BY-AP-MW-14V	Temperature	5/24/2022 16:11	21.7	C
BY-AP-MW-14V	Turbidity	5/24/2022 16:11	1.06	NTU
BY-AP-MW-14V	Conductivity	5/24/2022 16:16	982.39	uS/cm
BY-AP-MW-14V	DO	5/24/2022 16:16	0.43	mg/L
BY-AP-MW-14V	Depth to Water Detail	5/24/2022 16:16	22.15	ft
BY-AP-MW-14V	Oxidation Reduction Potention	5/24/2022 16:16	-104.29	mv
BY-AP-MW-14V	pH	5/24/2022 16:16	6.69	SU
BY-AP-MW-14V	Temperature	5/24/2022 16:16	21.52	C
BY-AP-MW-14V	Turbidity	5/24/2022 16:16	1.26	NTU
BY-AP-MW-14V	Conductivity	5/24/2022 16:21	969.26	uS/cm
BY-AP-MW-14V	DO	5/24/2022 16:21	0.42	mg/L
BY-AP-MW-14V	Depth to Water Detail	5/24/2022 16:21	22.15	ft
BY-AP-MW-14V	Oxidation Reduction Potention	5/24/2022 16:21	-104.33	mv
BY-AP-MW-14V	pH	5/24/2022 16:21	6.71	SU
BY-AP-MW-14V	Sulfide	5/24/2022 16:21	0	mg/L
BY-AP-MW-14V	Temperature	5/24/2022 16:21	21.42	C
BY-AP-MW-14V	Turbidity	5/24/2022 16:21	1.07	NTU

BY-AP-MW-9	Conductivity	5/24/2022 14:57	542.4	uS/cm
BY-AP-MW-9	DO	5/24/2022 14:57	0.31	mg/L
BY-AP-MW-9	Depth to Water Detail	5/24/2022 14:57	21.92	ft
BY-AP-MW-9	Oxidation Reduction Potention	5/24/2022 14:57	-75.39	mv
BY-AP-MW-9	pH	5/24/2022 14:57	6.01	SU
BY-AP-MW-9	Temperature	5/24/2022 14:57	22.25	C
BY-AP-MW-9	Turbidity	5/24/2022 14:57	1.96	NTU
BY-AP-MW-9	Conductivity	5/24/2022 15:02	549.58	uS/cm
BY-AP-MW-9	DO	5/24/2022 15:02	0.27	mg/L
BY-AP-MW-9	Depth to Water Detail	5/24/2022 15:02	21.92	ft
BY-AP-MW-9	Oxidation Reduction Potention	5/24/2022 15:02	-74.27	mv
BY-AP-MW-9	pH	5/24/2022 15:02	6	SU
BY-AP-MW-9	Temperature	5/24/2022 15:02	22.17	C
BY-AP-MW-9	Turbidity	5/24/2022 15:02	1.79	NTU
BY-AP-MW-9	Conductivity	5/24/2022 15:07	546.56	uS/cm
BY-AP-MW-9	DO	5/24/2022 15:07	0.25	mg/L
BY-AP-MW-9	Depth to Water Detail	5/24/2022 15:07	21.92	ft
BY-AP-MW-9	Oxidation Reduction Potention	5/24/2022 15:07	-73.61	mv
BY-AP-MW-9	pH	5/24/2022 15:07	6.01	SU
BY-AP-MW-9	Temperature	5/24/2022 15:07	22.21	C
BY-AP-MW-9	Turbidity	5/24/2022 15:07	0.91	NTU
BY-AP-MW-9	Conductivity	5/24/2022 15:12	543.47	uS/cm
BY-AP-MW-9	DO	5/24/2022 15:12	0.25	mg/L
BY-AP-MW-9	Depth to Water Detail	5/24/2022 15:12	21.92	ft
BY-AP-MW-9	Oxidation Reduction Potention	5/24/2022 15:12	-73.75	mv
BY-AP-MW-9	pH	5/24/2022 15:12	6.03	SU
BY-AP-MW-9	Sulfide	5/24/2022 15:12	0	mg/L
BY-AP-MW-9	Temperature	5/24/2022 15:12	22.35	C
BY-AP-MW-9	Turbidity	5/24/2022 15:12	1.63	NTU

BY-AP-MW-7V	Conductivity	5/24/2022 13:54	440.25	uS/cm
BY-AP-MW-7V	DO	5/24/2022 13:54	0.48	mg/L
BY-AP-MW-7V	Depth to Water Detail	5/24/2022 13:54	22.42	ft
BY-AP-MW-7V	Oxidation Reduction Potention	5/24/2022 13:54	-124.39	mv
BY-AP-MW-7V	pH	5/24/2022 13:54	6.88	SU
BY-AP-MW-7V	Temperature	5/24/2022 13:54	22.23	C
BY-AP-MW-7V	Turbidity	5/24/2022 13:54	1.9	NTU
BY-AP-MW-7V	Conductivity	5/24/2022 13:59	423.31	uS/cm
BY-AP-MW-7V	DO	5/24/2022 13:59	0.41	mg/L
BY-AP-MW-7V	Depth to Water Detail	5/24/2022 13:59	22.42	ft
BY-AP-MW-7V	Oxidation Reduction Potention	5/24/2022 13:59	-122.99	mv
BY-AP-MW-7V	pH	5/24/2022 13:59	6.89	SU
BY-AP-MW-7V	Temperature	5/24/2022 13:59	22.5	C
BY-AP-MW-7V	Turbidity	5/24/2022 13:59	1.52	NTU
BY-AP-MW-7V	Conductivity	5/24/2022 14:04	425.36	uS/cm
BY-AP-MW-7V	DO	5/24/2022 14:04	0.38	mg/L
BY-AP-MW-7V	Depth to Water Detail	5/24/2022 14:04	22.42	ft
BY-AP-MW-7V	Oxidation Reduction Potention	5/24/2022 14:04	-124.85	mv
BY-AP-MW-7V	pH	5/24/2022 14:04	6.92	SU
BY-AP-MW-7V	Temperature	5/24/2022 14:04	22.42	C
BY-AP-MW-7V	Turbidity	5/24/2022 14:04	1.85	NTU
BY-AP-MW-7V	Conductivity	5/24/2022 14:09	424.17	uS/cm
BY-AP-MW-7V	DO	5/24/2022 14:09	0.37	mg/L
BY-AP-MW-7V	Depth to Water Detail	5/24/2022 14:09	22.42	ft
BY-AP-MW-7V	Oxidation Reduction Potention	5/24/2022 14:09	-124.32	mv
BY-AP-MW-7V	pH	5/24/2022 14:09	6.92	SU
BY-AP-MW-7V	Sulfide	5/24/2022 14:09	0	mg/L
BY-AP-MW-7V	Temperature	5/24/2022 14:09	22.25	C
BY-AP-MW-7V	Turbidity	5/24/2022 14:09	1.73	NTU

BY-AP-MW-7	Conductivity	5/24/2022 12:53	254.18	uS/cm
BY-AP-MW-7	DO	5/24/2022 12:53	0.31	mg/L
BY-AP-MW-7	Depth to Water Detail	5/24/2022 12:53	23	ft
BY-AP-MW-7	Oxidation Reduction Potention	5/24/2022 12:53	-18.71	mv
BY-AP-MW-7	pH	5/24/2022 12:53	6.27	SU
BY-AP-MW-7	Temperature	5/24/2022 12:53	21.64	C
BY-AP-MW-7	Turbidity	5/24/2022 12:53	8.77	NTU
BY-AP-MW-7	Conductivity	5/24/2022 12:58	247.33	uS/cm
BY-AP-MW-7	DO	5/24/2022 12:58	0.29	mg/L
BY-AP-MW-7	Depth to Water Detail	5/24/2022 12:58	23	ft
BY-AP-MW-7	Oxidation Reduction Potention	5/24/2022 12:58	-21.78	mv
BY-AP-MW-7	pH	5/24/2022 12:58	6.29	SU
BY-AP-MW-7	Temperature	5/24/2022 12:58	21.64	C
BY-AP-MW-7	Turbidity	5/24/2022 12:58	4.13	NTU
BY-AP-MW-7	Conductivity	5/24/2022 13:03	248.82	uS/cm
BY-AP-MW-7	DO	5/24/2022 13:03	0.3	mg/L
BY-AP-MW-7	Depth to Water Detail	5/24/2022 13:03	23	ft
BY-AP-MW-7	Oxidation Reduction Potention	5/24/2022 13:03	-24.15	mv
BY-AP-MW-7	pH	5/24/2022 13:03	6.3	SU
BY-AP-MW-7	Temperature	5/24/2022 13:03	21.57	C
BY-AP-MW-7	Turbidity	5/24/2022 13:03	3.14	NTU
BY-AP-MW-7	Conductivity	5/24/2022 13:08	243.46	uS/cm
BY-AP-MW-7	DO	5/24/2022 13:08	0.3	mg/L
BY-AP-MW-7	Depth to Water Detail	5/24/2022 13:08	23	ft
BY-AP-MW-7	Oxidation Reduction Potention	5/24/2022 13:08	-25	mv
BY-AP-MW-7	pH	5/24/2022 13:08	6.32	SU
BY-AP-MW-7	Sulfide	5/24/2022 13:08	0	mg/L
BY-AP-MW-7	Temperature	5/24/2022 13:08	21.47	C
BY-AP-MW-7	Turbidity	5/24/2022 13:08	3.47	NTU

BY-AP-MW-15V	Conductivity	5/24/2022 10:39	618.48	uS/cm
BY-AP-MW-15V	DO	5/24/2022 10:39	0.32	mg/L
BY-AP-MW-15V	Depth to Water Detail	5/24/2022 10:39	4.59	ft
BY-AP-MW-15V	Oxidation Reduction Potention	5/24/2022 10:39	68.29	mv
BY-AP-MW-15V	pH	5/24/2022 10:39	5.56	SU
BY-AP-MW-15V	Temperature	5/24/2022 10:39	21.11	C
BY-AP-MW-15V	Turbidity	5/24/2022 10:39	3.56	NTU
BY-AP-MW-15V	Conductivity	5/24/2022 10:44	585.28	uS/cm
BY-AP-MW-15V	DO	5/24/2022 10:44	0.26	mg/L
BY-AP-MW-15V	Depth to Water Detail	5/24/2022 10:44	4.59	ft
BY-AP-MW-15V	Oxidation Reduction Potention	5/24/2022 10:44	52.2	mv
BY-AP-MW-15V	pH	5/24/2022 10:44	5.67	SU
BY-AP-MW-15V	Temperature	5/24/2022 10:44	21.13	C
BY-AP-MW-15V	Turbidity	5/24/2022 10:44	3.67	NTU
BY-AP-MW-15V	Conductivity	5/24/2022 10:49	591.8	uS/cm
BY-AP-MW-15V	DO	5/24/2022 10:49	0.26	mg/L
BY-AP-MW-15V	Depth to Water Detail	5/24/2022 10:49	4.59	ft
BY-AP-MW-15V	Oxidation Reduction Potention	5/24/2022 10:49	45.86	mv
BY-AP-MW-15V	pH	5/24/2022 10:49	5.7	SU
BY-AP-MW-15V	Temperature	5/24/2022 10:49	21.13	C
BY-AP-MW-15V	Turbidity	5/24/2022 10:49	10.61	NTU
BY-AP-MW-15V	Conductivity	5/24/2022 10:54	594.35	uS/cm
BY-AP-MW-15V	DO	5/24/2022 10:54	0.26	mg/L
BY-AP-MW-15V	Depth to Water Detail	5/24/2022 10:54	4.59	ft
BY-AP-MW-15V	Oxidation Reduction Potention	5/24/2022 10:54	44.5	mv
BY-AP-MW-15V	pH	5/24/2022 10:54	5.7	SU
BY-AP-MW-15V	Sulfide	5/24/2022 10:54	0	mg/L
BY-AP-MW-15V	Temperature	5/24/2022 10:54	21.14	C
BY-AP-MW-15V	Turbidity	5/24/2022 10:54	6.89	NTU

BY-AP-MW-19H	Conductivity	5/24/2022 8:39	163.33	uS/cm
BY-AP-MW-19H	DO	5/24/2022 8:39	0.29	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 8:39	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 8:39	8.46	mv
BY-AP-MW-19H	pH	5/24/2022 8:39	5.46	SU
BY-AP-MW-19H	Temperature	5/24/2022 8:39	20.07	C
BY-AP-MW-19H	Turbidity	5/24/2022 8:39	2.86	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 8:44	163.32	uS/cm
BY-AP-MW-19H	DO	5/24/2022 8:44	0.25	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 8:44	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 8:44	6.93	mv
BY-AP-MW-19H	pH	5/24/2022 8:44	5.47	SU
BY-AP-MW-19H	Temperature	5/24/2022 8:44	20.1	C
BY-AP-MW-19H	Turbidity	5/24/2022 8:44	2.52	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 8:49	167.54	uS/cm
BY-AP-MW-19H	DO	5/24/2022 8:49	0.23	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 8:49	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 8:49	-1.5	mv
BY-AP-MW-19H	pH	5/24/2022 8:49	5.53	SU
BY-AP-MW-19H	Temperature	5/24/2022 8:49	20.11	C
BY-AP-MW-19H	Turbidity	5/24/2022 8:49	1.92	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 8:54	174	uS/cm
BY-AP-MW-19H	DO	5/24/2022 8:54	0.22	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 8:54	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 8:54	-9.66	mv
BY-AP-MW-19H	pH	5/24/2022 8:54	5.6	SU
BY-AP-MW-19H	Temperature	5/24/2022 8:54	20.13	C
BY-AP-MW-19H	Turbidity	5/24/2022 8:54	2.5	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 8:59	179.18	uS/cm
BY-AP-MW-19H	DO	5/24/2022 8:59	0.22	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 8:59	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 8:59	-20.24	mv
BY-AP-MW-19H	pH	5/24/2022 8:59	5.64	SU
BY-AP-MW-19H	Temperature	5/24/2022 8:59	20.15	C
BY-AP-MW-19H	Turbidity	5/24/2022 8:59	1.88	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 9:04	185.76	uS/cm
BY-AP-MW-19H	DO	5/24/2022 9:04	0.22	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 9:04	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 9:04	-28.34	mv
BY-AP-MW-19H	pH	5/24/2022 9:04	5.68	SU
BY-AP-MW-19H	Temperature	5/24/2022 9:04	20.16	C
BY-AP-MW-19H	Turbidity	5/24/2022 9:04	1.85	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 9:09	191.64	uS/cm
BY-AP-MW-19H	DO	5/24/2022 9:09	0.21	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 9:09	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 9:09	-36.57	mv
BY-AP-MW-19H	pH	5/24/2022 9:09	5.72	SU
BY-AP-MW-19H	Temperature	5/24/2022 9:09	20.18	C
BY-AP-MW-19H	Turbidity	5/24/2022 9:09	1.54	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 9:14	199.9	uS/cm

BY-AP-MW-19H	DO	5/24/2022 9:14	0.21	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 9:14	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 9:14	-45.48	mv
BY-AP-MW-19H	pH	5/24/2022 9:14	5.75	SU
BY-AP-MW-19H	Temperature	5/24/2022 9:14	20.18	C
BY-AP-MW-19H	Turbidity	5/24/2022 9:14	1.54	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 9:19	207.65	uS/cm
BY-AP-MW-19H	DO	5/24/2022 9:19	0.21	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 9:19	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 9:19	-52.36	mv
BY-AP-MW-19H	pH	5/24/2022 9:19	5.79	SU
BY-AP-MW-19H	Temperature	5/24/2022 9:19	20.19	C
BY-AP-MW-19H	Turbidity	5/24/2022 9:19	1.48	NTU
BY-AP-MW-19H	Conductivity	5/24/2022 9:24	206.31	uS/cm
BY-AP-MW-19H	DO	5/24/2022 9:24	0.21	mg/L
BY-AP-MW-19H	Depth to Water Detail	5/24/2022 9:24	7.48	ft
BY-AP-MW-19H	Oxidation Reduction Potention	5/24/2022 9:24	-59.87	mv
BY-AP-MW-19H	pH	5/24/2022 9:24	5.8	SU
BY-AP-MW-19H	Sulfide	5/24/2022 9:24	0	mg/L
BY-AP-MW-19H	Temperature	5/24/2022 9:24	20.19	C
BY-AP-MW-19H	Turbidity	5/24/2022 9:24	1.65	NTU

BY-AP-MW-11	Conductivity	5/23/2022 17:02	594.71	uS/cm
BY-AP-MW-11	DO	5/23/2022 17:02	0.35	mg/L
BY-AP-MW-11	Depth to Water Detail	5/23/2022 17:02	20.42	ft
BY-AP-MW-11	Oxidation Reduction Potention	5/23/2022 17:02	-95.39	mv
BY-AP-MW-11	pH	5/23/2022 17:02	6.34	SU
BY-AP-MW-11	Temperature	5/23/2022 17:02	21.22	C
BY-AP-MW-11	Turbidity	5/23/2022 17:02	5.9	NTU
BY-AP-MW-11	Conductivity	5/23/2022 17:07	576.2	uS/cm
BY-AP-MW-11	DO	5/23/2022 17:07	0.31	mg/L
BY-AP-MW-11	Depth to Water Detail	5/23/2022 17:07	20.42	ft
BY-AP-MW-11	Oxidation Reduction Potention	5/23/2022 17:07	-96.13	mv
BY-AP-MW-11	pH	5/23/2022 17:07	6.32	SU
BY-AP-MW-11	Temperature	5/23/2022 17:07	21.17	C
BY-AP-MW-11	Turbidity	5/23/2022 17:07	5.24	NTU
BY-AP-MW-11	Conductivity	5/23/2022 17:12	565.73	uS/cm
BY-AP-MW-11	DO	5/23/2022 17:12	0.28	mg/L
BY-AP-MW-11	Depth to Water Detail	5/23/2022 17:12	20.42	ft
BY-AP-MW-11	Oxidation Reduction Potention	5/23/2022 17:12	-96.48	mv
BY-AP-MW-11	pH	5/23/2022 17:12	6.32	SU
BY-AP-MW-11	Temperature	5/23/2022 17:12	21.17	C
BY-AP-MW-11	Turbidity	5/23/2022 17:12	4.3	NTU
BY-AP-MW-11	Conductivity	5/23/2022 17:17	555.51	uS/cm
BY-AP-MW-11	DO	5/23/2022 17:17	0.27	mg/L
BY-AP-MW-11	Depth to Water Detail	5/23/2022 17:17	20.42	ft
BY-AP-MW-11	Oxidation Reduction Potention	5/23/2022 17:17	-96.88	mv
BY-AP-MW-11	pH	5/23/2022 17:17	6.32	SU
BY-AP-MW-11	Sulfide	5/23/2022 17:17	0	mg/L
BY-AP-MW-11	Temperature	5/23/2022 17:17	21.18	C
BY-AP-MW-11	Turbidity	5/23/2022 17:17	3.74	NTU

BY-AP-MW-18H	Conductivity	5/23/2022 15:42	355	uS/cm
BY-AP-MW-18H	DO	5/23/2022 15:42	0.26	mg/L
BY-AP-MW-18H	Depth to Water Detail	5/23/2022 15:42	7.69	ft
BY-AP-MW-18H	Oxidation Reduction Potention	5/23/2022 15:42	-66.84	mv
BY-AP-MW-18H	pH	5/23/2022 15:42	6.01	SU
BY-AP-MW-18H	Temperature	5/23/2022 15:42	20.38	C
BY-AP-MW-18H	Turbidity	5/23/2022 15:42	4.43	NTU
BY-AP-MW-18H	Conductivity	5/23/2022 15:47	378.06	uS/cm
BY-AP-MW-18H	DO	5/23/2022 15:47	0.23	mg/L
BY-AP-MW-18H	Depth to Water Detail	5/23/2022 15:47	7.69	ft
BY-AP-MW-18H	Oxidation Reduction Potention	5/23/2022 15:47	-63.53	mv
BY-AP-MW-18H	pH	5/23/2022 15:47	6	SU
BY-AP-MW-18H	Temperature	5/23/2022 15:47	20.34	C
BY-AP-MW-18H	Turbidity	5/23/2022 15:47	4.13	NTU
BY-AP-MW-18H	Conductivity	5/23/2022 15:52	399	uS/cm
BY-AP-MW-18H	DO	5/23/2022 15:52	0.21	mg/L
BY-AP-MW-18H	Depth to Water Detail	5/23/2022 15:52	7.69	ft
BY-AP-MW-18H	Oxidation Reduction Potention	5/23/2022 15:52	-65.63	mv
BY-AP-MW-18H	pH	5/23/2022 15:52	6.04	SU
BY-AP-MW-18H	Temperature	5/23/2022 15:52	20.32	C
BY-AP-MW-18H	Turbidity	5/23/2022 15:52	3.13	NTU
BY-AP-MW-18H	Conductivity	5/23/2022 15:57	406.3	uS/cm
BY-AP-MW-18H	DO	5/23/2022 15:57	0.23	mg/L
BY-AP-MW-18H	Depth to Water Detail	5/23/2022 15:57	7.69	ft
BY-AP-MW-18H	Oxidation Reduction Potention	5/23/2022 15:57	-68.64	mv
BY-AP-MW-18H	pH	5/23/2022 15:57	6.1	SU
BY-AP-MW-18H	Temperature	5/23/2022 15:57	20.3	C
BY-AP-MW-18H	Turbidity	5/23/2022 15:57	3.23	NTU
BY-AP-MW-18H	Conductivity	5/23/2022 16:02	496.21	uS/cm
BY-AP-MW-18H	DO	5/23/2022 16:02	0.19	mg/L
BY-AP-MW-18H	Depth to Water Detail	5/23/2022 16:02	7.69	ft
BY-AP-MW-18H	Oxidation Reduction Potention	5/23/2022 16:02	-70.79	mv
BY-AP-MW-18H	pH	5/23/2022 16:02	6.14	SU
BY-AP-MW-18H	Temperature	5/23/2022 16:02	20.26	C
BY-AP-MW-18H	Turbidity	5/23/2022 16:02	3.18	NTU
BY-AP-MW-18H	Conductivity	5/23/2022 16:07	495.39	uS/cm
BY-AP-MW-18H	DO	5/23/2022 16:07	0.2	mg/L
BY-AP-MW-18H	Depth to Water Detail	5/23/2022 16:07	7.69	ft
BY-AP-MW-18H	Oxidation Reduction Potention	5/23/2022 16:07	-71.86	mv
BY-AP-MW-18H	pH	5/23/2022 16:07	6.21	SU
BY-AP-MW-18H	Temperature	5/23/2022 16:07	20.29	C
BY-AP-MW-18H	Turbidity	5/23/2022 16:07	4.55	NTU
BY-AP-MW-18H	Conductivity	5/23/2022 16:12	495.93	uS/cm
BY-AP-MW-18H	DO	5/23/2022 16:12	0.2	mg/L
BY-AP-MW-18H	Depth to Water Detail	5/23/2022 16:12	7.69	ft
BY-AP-MW-18H	Oxidation Reduction Potention	5/23/2022 16:12	-70.12	mv
BY-AP-MW-18H	pH	5/23/2022 16:12	6.24	SU
BY-AP-MW-18H	Sulfide	5/23/2022 16:12	0	mg/L
BY-AP-MW-18H	Temperature	5/23/2022 16:12	20.29	C
BY-AP-MW-18H	Turbidity	5/23/2022 16:12	1.58	NTU

BY-AP-MW-1	Conductivity	5/24/2022 12:40	714.92	uS/cm
BY-AP-MW-1	DO	5/24/2022 12:40	0.13	mg/L
BY-AP-MW-1	Depth to Water Detail	5/24/2022 12:40	21.54	ft
BY-AP-MW-1	Oxidation Reduction Potention	5/24/2022 12:40	-11.15	mv
BY-AP-MW-1	pH	5/24/2022 12:40	5.61	SU
BY-AP-MW-1	Temperature	5/24/2022 12:40	21.75	C
BY-AP-MW-1	Turbidity	5/24/2022 12:40	11.2	NTU
BY-AP-MW-1	Conductivity	5/24/2022 12:45	726.52	uS/cm
BY-AP-MW-1	DO	5/24/2022 12:45	0.12	mg/L
BY-AP-MW-1	Depth to Water Detail	5/24/2022 12:45	21.61	ft
BY-AP-MW-1	Oxidation Reduction Potention	5/24/2022 12:45	-11.01	mv
BY-AP-MW-1	pH	5/24/2022 12:45	5.55	SU
BY-AP-MW-1	Temperature	5/24/2022 12:45	21.76	C
BY-AP-MW-1	Turbidity	5/24/2022 12:45	4.94	NTU
BY-AP-MW-1	Conductivity	5/24/2022 12:50	743.7	uS/cm
BY-AP-MW-1	DO	5/24/2022 12:50	0.12	mg/L
BY-AP-MW-1	Depth to Water Detail	5/24/2022 12:50	21.63	ft
BY-AP-MW-1	Oxidation Reduction Potention	5/24/2022 12:50	-8.68	mv
BY-AP-MW-1	pH	5/24/2022 12:50	5.48	SU
BY-AP-MW-1	Temperature	5/24/2022 12:50	21.66	C
BY-AP-MW-1	Turbidity	5/24/2022 12:50	3.5	NTU
BY-AP-MW-1	Conductivity	5/24/2022 12:55	758.26	uS/cm
BY-AP-MW-1	DO	5/24/2022 12:55	0.12	mg/L
BY-AP-MW-1	Depth to Water Detail	5/24/2022 12:55	21.66	ft
BY-AP-MW-1	Oxidation Reduction Potention	5/24/2022 12:55	-8.45	mv
BY-AP-MW-1	pH	5/24/2022 12:55	5.44	SU
BY-AP-MW-1	Sulfide	5/24/2022 12:55	0	mg/L
BY-AP-MW-1	Temperature	5/24/2022 12:55	21.65	C
BY-AP-MW-1	Turbidity	5/24/2022 12:55	2.83	NTU

BY-AP-MW-1V	Conductivity	5/24/2022 14:22	384.69	uS/cm
BY-AP-MW-1V	DO	5/24/2022 14:22	0.22	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 14:22	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 14:22	104.49	mv
BY-AP-MW-1V	pH	5/24/2022 14:22	5.37	SU
BY-AP-MW-1V	Temperature	5/24/2022 14:22	22.52	C
BY-AP-MW-1V	Turbidity	5/24/2022 14:22	7.45	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 14:27	380.78	uS/cm
BY-AP-MW-1V	DO	5/24/2022 14:27	0.18	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 14:27	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 14:27	112.72	mv
BY-AP-MW-1V	pH	5/24/2022 14:27	5.32	SU
BY-AP-MW-1V	Temperature	5/24/2022 14:27	22.59	C
BY-AP-MW-1V	Turbidity	5/24/2022 14:27	1.52	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 14:32	379.23	uS/cm
BY-AP-MW-1V	DO	5/24/2022 14:32	0.16	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 14:32	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 14:32	134.46	mv
BY-AP-MW-1V	pH	5/24/2022 14:32	4.96	SU
BY-AP-MW-1V	Temperature	5/24/2022 14:32	22.62	C
BY-AP-MW-1V	Turbidity	5/24/2022 14:32	0.86	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 14:37	378.37	uS/cm
BY-AP-MW-1V	DO	5/24/2022 14:37	0.16	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 14:37	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 14:37	134.36	mv
BY-AP-MW-1V	pH	5/24/2022 14:37	5	SU
BY-AP-MW-1V	Temperature	5/24/2022 14:37	22.25	C
BY-AP-MW-1V	Turbidity	5/24/2022 14:37	0.83	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 14:42	377.94	uS/cm
BY-AP-MW-1V	DO	5/24/2022 14:42	0.15	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 14:42	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 14:42	122.46	mv
BY-AP-MW-1V	pH	5/24/2022 14:42	5.18	SU
BY-AP-MW-1V	Temperature	5/24/2022 14:42	22.11	C
BY-AP-MW-1V	Turbidity	5/24/2022 14:42	0.77	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 14:47	375.94	uS/cm
BY-AP-MW-1V	DO	5/24/2022 14:47	0.15	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 14:47	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 14:47	119.85	mv
BY-AP-MW-1V	pH	5/24/2022 14:47	5.21	SU
BY-AP-MW-1V	Temperature	5/24/2022 14:47	22.21	C
BY-AP-MW-1V	Turbidity	5/24/2022 14:47	0.53	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 14:52	374.94	uS/cm
BY-AP-MW-1V	DO	5/24/2022 14:52	0.15	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 14:52	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 14:52	143.9	mv
BY-AP-MW-1V	pH	5/24/2022 14:52	4.76	SU
BY-AP-MW-1V	Temperature	5/24/2022 14:52	22.26	C
BY-AP-MW-1V	Turbidity	5/24/2022 14:52	0.78	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 14:57	375.16	uS/cm
BY-AP-MW-1V	DO	5/24/2022 14:57	0.15	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 14:57	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 14:57	146.98	mv
BY-AP-MW-1V	pH	5/24/2022 14:57	4.72	SU
BY-AP-MW-1V	Temperature	5/24/2022 14:57	22.37	C

BY-AP-MW-1V	Turbidity	5/24/2022 14:57	0.79	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 15:02	374.66	uS/cm
BY-AP-MW-1V	DO	5/24/2022 15:02	0.15	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 15:02	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 15:02	128.94	mv
BY-AP-MW-1V	pH	5/24/2022 15:02	5.01	SU
BY-AP-MW-1V	Temperature	5/24/2022 15:02	22.24	C
BY-AP-MW-1V	Turbidity	5/24/2022 15:02	0.65	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 15:07	375.42	uS/cm
BY-AP-MW-1V	DO	5/24/2022 15:07	0.14	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 15:07	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 15:07	130.48	mv
BY-AP-MW-1V	pH	5/24/2022 15:07	4.96	SU
BY-AP-MW-1V	Temperature	5/24/2022 15:07	22.08	C
BY-AP-MW-1V	Turbidity	5/24/2022 15:07	0.58	NTU
BY-AP-MW-1V	Conductivity	5/24/2022 15:12	375.09	uS/cm
BY-AP-MW-1V	DO	5/24/2022 15:12	0.14	mg/L
BY-AP-MW-1V	Depth to Water Detail	5/24/2022 15:12	22.74	ft
BY-AP-MW-1V	Oxidation Reduction Potention	5/24/2022 15:12	133.41	mv
BY-AP-MW-1V	pH	5/24/2022 15:12	4.9	SU
BY-AP-MW-1V	Sulfide	5/24/2022 15:12	0	mg/L
BY-AP-MW-1V	Temperature	5/24/2022 15:12	22.07	C
BY-AP-MW-1V	Turbidity	5/24/2022 15:12	0.51	NTU

BY-AP-MW-2	Conductivity	5/24/2022 16:20	53.06	uS/cm
BY-AP-MW-2	DO	5/24/2022 16:20	0.44	mg/L
BY-AP-MW-2	Depth to Water Detail	5/24/2022 16:20	20.11	ft
BY-AP-MW-2	Oxidation Reduction Potention	5/24/2022 16:20	161.58	mv
BY-AP-MW-2	pH	5/24/2022 16:20	4.82	SU
BY-AP-MW-2	Temperature	5/24/2022 16:20	21.89	C
BY-AP-MW-2	Turbidity	5/24/2022 16:20	0.84	NTU
BY-AP-MW-2	Conductivity	5/24/2022 16:25	53.05	uS/cm
BY-AP-MW-2	DO	5/24/2022 16:25	0.31	mg/L
BY-AP-MW-2	Depth to Water Detail	5/24/2022 16:25	20.11	ft
BY-AP-MW-2	Oxidation Reduction Potention	5/24/2022 16:25	160.93	mv
BY-AP-MW-2	pH	5/24/2022 16:25	4.84	SU
BY-AP-MW-2	Temperature	5/24/2022 16:25	22.04	C
BY-AP-MW-2	Turbidity	5/24/2022 16:25	0.75	NTU
BY-AP-MW-2	Conductivity	5/24/2022 16:30	52.99	uS/cm
BY-AP-MW-2	DO	5/24/2022 16:30	0.29	mg/L
BY-AP-MW-2	Depth to Water Detail	5/24/2022 16:30	20.11	ft
BY-AP-MW-2	Oxidation Reduction Potention	5/24/2022 16:30	160.5	mv
BY-AP-MW-2	pH	5/24/2022 16:30	4.87	SU
BY-AP-MW-2	Temperature	5/24/2022 16:30	22.07	C
BY-AP-MW-2	Turbidity	5/24/2022 16:30	0.86	NTU
BY-AP-MW-2	Conductivity	5/24/2022 16:35	52.98	uS/cm
BY-AP-MW-2	DO	5/24/2022 16:35	0.27	mg/L
BY-AP-MW-2	Depth to Water Detail	5/24/2022 16:35	20.11	ft
BY-AP-MW-2	Oxidation Reduction Potention	5/24/2022 16:35	186.52	mv
BY-AP-MW-2	pH	5/24/2022 16:35	4.44	SU
BY-AP-MW-2	Temperature	5/24/2022 16:35	22.18	C
BY-AP-MW-2	Turbidity	5/24/2022 16:35	0.83	NTU
BY-AP-MW-2	Conductivity	5/24/2022 16:40	53.14	uS/cm
BY-AP-MW-2	DO	5/24/2022 16:40	0.27	mg/L
BY-AP-MW-2	Depth to Water Detail	5/24/2022 16:40	20.11	ft
BY-AP-MW-2	Oxidation Reduction Potention	5/24/2022 16:40	181.53	mv
BY-AP-MW-2	pH	5/24/2022 16:40	4.54	SU
BY-AP-MW-2	Temperature	5/24/2022 16:40	22.03	C
BY-AP-MW-2	Turbidity	5/24/2022 16:40	0.87	NTU
BY-AP-MW-2	Conductivity	5/24/2022 16:45	53.12	uS/cm
BY-AP-MW-2	DO	5/24/2022 16:45	0.27	mg/L
BY-AP-MW-2	Depth to Water Detail	5/24/2022 16:45	20.11	ft
BY-AP-MW-2	Oxidation Reduction Potention	5/24/2022 16:45	170.42	mv
BY-AP-MW-2	pH	5/24/2022 16:45	4.73	SU
BY-AP-MW-2	Temperature	5/24/2022 16:45	21.99	C
BY-AP-MW-2	Turbidity	5/24/2022 16:45	0.86	NTU
BY-AP-MW-2	Conductivity	5/24/2022 16:50	53.14	uS/cm
BY-AP-MW-2	DO	5/24/2022 16:50	0.26	mg/L
BY-AP-MW-2	Depth to Water Detail	5/24/2022 16:50	20.11	ft
BY-AP-MW-2	Oxidation Reduction Potention	5/24/2022 16:50	166.36	mv
BY-AP-MW-2	pH	5/24/2022 16:50	4.82	SU
BY-AP-MW-2	Temperature	5/24/2022 16:50	22.05	C
BY-AP-MW-2	Turbidity	5/24/2022 16:50	0.86	NTU
BY-AP-MW-2	Conductivity	5/24/2022 16:55	53.16	uS/cm
BY-AP-MW-2	DO	5/24/2022 16:55	0.26	mg/L
BY-AP-MW-2	Depth to Water Detail	5/24/2022 16:55	20.11	ft
BY-AP-MW-2	Oxidation Reduction Potention	5/24/2022 16:55	168.85	mv
BY-AP-MW-2	pH	5/24/2022 16:55	4.78	SU
BY-AP-MW-2	Sulfide	5/24/2022 16:55	0	mg/L

BY-AP-MW-2	Temperature	5/24/2022 16:55	22.12	C
BY-AP-MW-2	Turbidity	5/24/2022 16:55	0.78	NTU

BY-AP-MW-5	Conductivity	5/25/2022 12:47	440.89	uS/cm
BY-AP-MW-5	DO	5/25/2022 12:47	0.15	mg/L
BY-AP-MW-5	Depth to Water Detail	5/25/2022 12:47	25.43	ft
BY-AP-MW-5	Oxidation Reduction Potention	5/25/2022 12:47	-63.26	mv
BY-AP-MW-5	pH	5/25/2022 12:47	5.98	SU
BY-AP-MW-5	Temperature	5/25/2022 12:47	22.13	C
BY-AP-MW-5	Turbidity	5/25/2022 12:47	0.85	NTU
BY-AP-MW-5	Conductivity	5/25/2022 12:52	438.54	uS/cm
BY-AP-MW-5	DO	5/25/2022 12:52	0.14	mg/L
BY-AP-MW-5	Depth to Water Detail	5/25/2022 12:52	25.43	ft
BY-AP-MW-5	Oxidation Reduction Potention	5/25/2022 12:52	-68.28	mv
BY-AP-MW-5	pH	5/25/2022 12:52	5.99	SU
BY-AP-MW-5	Temperature	5/25/2022 12:52	22.17	C
BY-AP-MW-5	Turbidity	5/25/2022 12:52	2.14	NTU
BY-AP-MW-5	Conductivity	5/25/2022 12:57	431.18	uS/cm
BY-AP-MW-5	DO	5/25/2022 12:57	0.13	mg/L
BY-AP-MW-5	Depth to Water Detail	5/25/2022 12:57	25.43	ft
BY-AP-MW-5	Oxidation Reduction Potention	5/25/2022 12:57	-71.47	mv
BY-AP-MW-5	pH	5/25/2022 12:57	6	SU
BY-AP-MW-5	Temperature	5/25/2022 12:57	22.19	C
BY-AP-MW-5	Turbidity	5/25/2022 12:57	1.72	NTU
BY-AP-MW-5	Conductivity	5/25/2022 13:02	426.36	uS/cm
BY-AP-MW-5	DO	5/25/2022 13:02	0.13	mg/L
BY-AP-MW-5	Depth to Water Detail	5/25/2022 13:02	25.43	ft
BY-AP-MW-5	Oxidation Reduction Potention	5/25/2022 13:02	-73.02	mv
BY-AP-MW-5	pH	5/25/2022 13:02	5.99	SU
BY-AP-MW-5	Sulfide	5/25/2022 13:02	0	mg/L
BY-AP-MW-5	Temperature	5/25/2022 13:02	22.21	C
BY-AP-MW-5	Turbidity	5/25/2022 13:02	1.77	NTU

BY-AP-MW-5V	Conductivity	5/25/2022 13:35	107.72	uS/cm
BY-AP-MW-5V	DO	5/25/2022 13:35	0.62	mg/L
BY-AP-MW-5V	Depth to Water Detail	5/25/2022 13:35	25.44	ft
BY-AP-MW-5V	Oxidation Reduction Potention	5/25/2022 13:35	59.85	mv
BY-AP-MW-5V	pH	5/25/2022 13:35	5.75	SU
BY-AP-MW-5V	Temperature	5/25/2022 13:35	22.56	C
BY-AP-MW-5V	Turbidity	5/25/2022 13:35	11.6	NTU
BY-AP-MW-5V	Conductivity	5/25/2022 13:40	109.37	uS/cm
BY-AP-MW-5V	DO	5/25/2022 13:40	0.81	mg/L
BY-AP-MW-5V	Depth to Water Detail	5/25/2022 13:40	25.44	ft
BY-AP-MW-5V	Oxidation Reduction Potention	5/25/2022 13:40	75.4	mv
BY-AP-MW-5V	pH	5/25/2022 13:40	5.8	SU
BY-AP-MW-5V	Temperature	5/25/2022 13:40	22.58	C
BY-AP-MW-5V	Turbidity	5/25/2022 13:40	6.74	NTU
BY-AP-MW-5V	Conductivity	5/25/2022 13:45	110.83	uS/cm
BY-AP-MW-5V	DO	5/25/2022 13:45	0.96	mg/L
BY-AP-MW-5V	Depth to Water Detail	5/25/2022 13:45	25.44	ft
BY-AP-MW-5V	Oxidation Reduction Potention	5/25/2022 13:45	85.54	mv
BY-AP-MW-5V	pH	5/25/2022 13:45	5.81	SU
BY-AP-MW-5V	Temperature	5/25/2022 13:45	22.77	C
BY-AP-MW-5V	Turbidity	5/25/2022 13:45	5.45	NTU
BY-AP-MW-5V	Conductivity	5/25/2022 13:50	112.36	uS/cm
BY-AP-MW-5V	DO	5/25/2022 13:50	1.08	mg/L
BY-AP-MW-5V	Depth to Water Detail	5/25/2022 13:50	25.44	ft
BY-AP-MW-5V	Oxidation Reduction Potention	5/25/2022 13:50	92.82	mv
BY-AP-MW-5V	pH	5/25/2022 13:50	5.82	SU
BY-AP-MW-5V	Temperature	5/25/2022 13:50	22.68	C
BY-AP-MW-5V	Turbidity	5/25/2022 13:50	5.87	NTU
BY-AP-MW-5V	Conductivity	5/25/2022 13:55	113.12	uS/cm
BY-AP-MW-5V	DO	5/25/2022 13:55	1.17	mg/L
BY-AP-MW-5V	Depth to Water Detail	5/25/2022 13:55	25.44	ft
BY-AP-MW-5V	Oxidation Reduction Potention	5/25/2022 13:55	96.93	mv
BY-AP-MW-5V	pH	5/25/2022 13:55	5.86	SU
BY-AP-MW-5V	Temperature	5/25/2022 13:55	22.46	C
BY-AP-MW-5V	Turbidity	5/25/2022 13:55	2.44	NTU
BY-AP-MW-5V	Conductivity	5/25/2022 14:00	114.39	uS/cm
BY-AP-MW-5V	DO	5/25/2022 14:00	1.23	mg/L
BY-AP-MW-5V	Depth to Water Detail	5/25/2022 14:00	25.44	ft
BY-AP-MW-5V	Oxidation Reduction Potention	5/25/2022 14:00	99.33	mv
BY-AP-MW-5V	pH	5/25/2022 14:00	5.88	SU
BY-AP-MW-5V	Sulfide	5/25/2022 14:00	0	mg/L
BY-AP-MW-5V	Temperature	5/25/2022 14:00	22.54	C
BY-AP-MW-5V	Turbidity	5/25/2022 14:00	1.64	NTU

BY-AP-MW-6	Conductivity	5/25/2022 15:03	52.6	uS/cm
BY-AP-MW-6	DO	5/25/2022 15:03	0.48	mg/L
BY-AP-MW-6	Depth to Water Detail	5/25/2022 15:03	23.32	ft
BY-AP-MW-6	Oxidation Reduction Potention	5/25/2022 15:03	226.2	mv
BY-AP-MW-6	pH	5/25/2022 15:03	4.77	SU
BY-AP-MW-6	Temperature	5/25/2022 15:03	21.72	C
BY-AP-MW-6	Turbidity	5/25/2022 15:03	0.93	NTU
BY-AP-MW-6	Conductivity	5/25/2022 15:08	52.94	uS/cm
BY-AP-MW-6	DO	5/25/2022 15:08	0.48	mg/L
BY-AP-MW-6	Depth to Water Detail	5/25/2022 15:08	23.32	ft
BY-AP-MW-6	Oxidation Reduction Potention	5/25/2022 15:08	251.43	mv
BY-AP-MW-6	pH	5/25/2022 15:08	4.58	SU
BY-AP-MW-6	Temperature	5/25/2022 15:08	21.59	C
BY-AP-MW-6	Turbidity	5/25/2022 15:08	0.69	NTU
BY-AP-MW-6	Conductivity	5/25/2022 15:13	52.83	uS/cm
BY-AP-MW-6	DO	5/25/2022 15:13	0.48	mg/L
BY-AP-MW-6	Depth to Water Detail	5/25/2022 15:13	23.32	ft
BY-AP-MW-6	Oxidation Reduction Potention	5/25/2022 15:13	263.5	mv
BY-AP-MW-6	pH	5/25/2022 15:13	4.54	SU
BY-AP-MW-6	Temperature	5/25/2022 15:13	21.45	C
BY-AP-MW-6	Turbidity	5/25/2022 15:13	0.71	NTU
BY-AP-MW-6	Conductivity	5/25/2022 15:18	52.89	uS/cm
BY-AP-MW-6	DO	5/25/2022 15:18	0.49	mg/L
BY-AP-MW-6	Depth to Water Detail	5/25/2022 15:18	23.32	ft
BY-AP-MW-6	Oxidation Reduction Potention	5/25/2022 15:18	268.89	mv
BY-AP-MW-6	pH	5/25/2022 15:18	4.57	SU
BY-AP-MW-6	Sulfide	5/25/2022 15:18	0	mg/L
BY-AP-MW-6	Temperature	5/25/2022 15:18	21.47	C
BY-AP-MW-6	Turbidity	5/25/2022 15:18	0.87	NTU

BY-AP-MW-12	Conductivity	5/23/2022 15:57	576.63	uS/cm
BY-AP-MW-12	DO	5/23/2022 15:57	0.15	mg/L
BY-AP-MW-12	Depth to Water Detail	5/23/2022 15:57	21.16	ft
BY-AP-MW-12	Oxidation Reduction Potention	5/23/2022 15:57	-81.29	mv
BY-AP-MW-12	pH	5/23/2022 15:57	6.11	SU
BY-AP-MW-12	Temperature	5/23/2022 15:57	20.91	C
BY-AP-MW-12	Turbidity	5/23/2022 15:57	3.48	NTU
BY-AP-MW-12	Conductivity	5/23/2022 16:02	574.22	uS/cm
BY-AP-MW-12	DO	5/23/2022 16:02	0.12	mg/L
BY-AP-MW-12	Depth to Water Detail	5/23/2022 16:02	21.16	ft
BY-AP-MW-12	Oxidation Reduction Potention	5/23/2022 16:02	-79.37	mv
BY-AP-MW-12	pH	5/23/2022 16:02	6.13	SU
BY-AP-MW-12	Temperature	5/23/2022 16:02	20.83	C
BY-AP-MW-12	Turbidity	5/23/2022 16:02	2.35	NTU
BY-AP-MW-12	Conductivity	5/23/2022 16:07	565.99	uS/cm
BY-AP-MW-12	DO	5/23/2022 16:07	0.12	mg/L
BY-AP-MW-12	Depth to Water Detail	5/23/2022 16:07	21.16	ft
BY-AP-MW-12	Oxidation Reduction Potention	5/23/2022 16:07	-75.6	mv
BY-AP-MW-12	pH	5/23/2022 16:07	6.13	SU
BY-AP-MW-12	Temperature	5/23/2022 16:07	20.84	C
BY-AP-MW-12	Turbidity	5/23/2022 16:07	1.94	NTU
BY-AP-MW-12	Conductivity	5/23/2022 16:12	578.36	uS/cm
BY-AP-MW-12	DO	5/23/2022 16:12	0.12	mg/L
BY-AP-MW-12	Depth to Water Detail	5/23/2022 16:12	21.16	ft
BY-AP-MW-12	Oxidation Reduction Potention	5/23/2022 16:12	-72.55	mv
BY-AP-MW-12	pH	5/23/2022 16:12	6.12	SU
BY-AP-MW-12	Sulfide	5/23/2022 16:12	0	mg/L
BY-AP-MW-12	Temperature	5/23/2022 16:12	20.85	C
BY-AP-MW-12	Turbidity	5/23/2022 16:12	2.67	NTU

BY-AP-MW-12V	Conductivity	5/23/2022 16:47	616.53	uS/cm
BY-AP-MW-12V	DO	5/23/2022 16:47	0.15	mg/L
BY-AP-MW-12V	Depth to Water Detail	5/23/2022 16:47	20.73	ft
BY-AP-MW-12V	Oxidation Reduction Potention	5/23/2022 16:47	-64.88	mv
BY-AP-MW-12V	pH	5/23/2022 16:47	6.22	SU
BY-AP-MW-12V	Temperature	5/23/2022 16:47	20.8	C
BY-AP-MW-12V	Turbidity	5/23/2022 16:47	2.66	NTU
BY-AP-MW-12V	Conductivity	5/23/2022 16:52	616.08	uS/cm
BY-AP-MW-12V	DO	5/23/2022 16:52	0.12	mg/L
BY-AP-MW-12V	Depth to Water Detail	5/23/2022 16:52	20.73	ft
BY-AP-MW-12V	Oxidation Reduction Potention	5/23/2022 16:52	-67.12	mv
BY-AP-MW-12V	pH	5/23/2022 16:52	6.23	SU
BY-AP-MW-12V	Temperature	5/23/2022 16:52	20.67	C
BY-AP-MW-12V	Turbidity	5/23/2022 16:52	2.66	NTU
BY-AP-MW-12V	Conductivity	5/23/2022 16:57	615.09	uS/cm
BY-AP-MW-12V	DO	5/23/2022 16:57	0.11	mg/L
BY-AP-MW-12V	Depth to Water Detail	5/23/2022 16:57	20.73	ft
BY-AP-MW-12V	Oxidation Reduction Potention	5/23/2022 16:57	-67.3	mv
BY-AP-MW-12V	pH	5/23/2022 16:57	6.22	SU
BY-AP-MW-12V	Temperature	5/23/2022 16:57	20.69	C
BY-AP-MW-12V	Turbidity	5/23/2022 16:57	0.98	NTU
BY-AP-MW-12V	Conductivity	5/23/2022 17:02	616.65	uS/cm
BY-AP-MW-12V	DO	5/23/2022 17:02	0.11	mg/L
BY-AP-MW-12V	Depth to Water Detail	5/23/2022 17:02	20.73	ft
BY-AP-MW-12V	Oxidation Reduction Potention	5/23/2022 17:02	-67.29	mv
BY-AP-MW-12V	pH	5/23/2022 17:02	6.22	SU
BY-AP-MW-12V	Sulfide	5/23/2022 17:02	0	mg/L
BY-AP-MW-12V	Temperature	5/23/2022 17:02	20.7	C
BY-AP-MW-12V	Turbidity	5/23/2022 17:02	1.04	NTU

BY-AP-MW-20V	Conductivity	5/24/2022 8:47	553.23	uS/cm
BY-AP-MW-20V	DO	5/24/2022 8:47	0.26	mg/L
BY-AP-MW-20V	Depth to Water Detail	5/24/2022 8:47	23.06	ft
BY-AP-MW-20V	Oxidation Reduction Potention	5/24/2022 8:47	-81.45	mv
BY-AP-MW-20V	pH	5/24/2022 8:47	6.3	SU
BY-AP-MW-20V	Temperature	5/24/2022 8:47	20.49	C
BY-AP-MW-20V	Turbidity	5/24/2022 8:47	7.41	NTU
BY-AP-MW-20V	Conductivity	5/24/2022 8:52	550.93	uS/cm
BY-AP-MW-20V	DO	5/24/2022 8:52	0.22	mg/L
BY-AP-MW-20V	Depth to Water Detail	5/24/2022 8:52	23.06	ft
BY-AP-MW-20V	Oxidation Reduction Potention	5/24/2022 8:52	-81.54	mv
BY-AP-MW-20V	pH	5/24/2022 8:52	6.3	SU
BY-AP-MW-20V	Temperature	5/24/2022 8:52	20.52	C
BY-AP-MW-20V	Turbidity	5/24/2022 8:52	1.34	NTU
BY-AP-MW-20V	Conductivity	5/24/2022 8:57	549.66	uS/cm
BY-AP-MW-20V	DO	5/24/2022 8:57	0.22	mg/L
BY-AP-MW-20V	Depth to Water Detail	5/24/2022 8:57	23.06	ft
BY-AP-MW-20V	Oxidation Reduction Potention	5/24/2022 8:57	-80.37	mv
BY-AP-MW-20V	pH	5/24/2022 8:57	6.3	SU
BY-AP-MW-20V	Temperature	5/24/2022 8:57	20.53	C
BY-AP-MW-20V	Turbidity	5/24/2022 8:57	1.25	NTU
BY-AP-MW-20V	Conductivity	5/24/2022 9:02	549.97	uS/cm
BY-AP-MW-20V	DO	5/24/2022 9:02	0.25	mg/L
BY-AP-MW-20V	Depth to Water Detail	5/24/2022 9:02	23.06	ft
BY-AP-MW-20V	Oxidation Reduction Potention	5/24/2022 9:02	-77.95	mv
BY-AP-MW-20V	pH	5/24/2022 9:02	6.28	SU
BY-AP-MW-20V	Sulfide	5/24/2022 9:02	0	mg/L
BY-AP-MW-20V	Temperature	5/24/2022 9:02	20.55	C
BY-AP-MW-20V	Turbidity	5/24/2022 9:02	1.01	NTU

BY-AP-MW-24H	Conductivity	5/24/2022 10:09	788.22	uS/cm
BY-AP-MW-24H	DO	5/24/2022 10:09	0.13	mg/L
BY-AP-MW-24H	Depth to Water Detail	5/24/2022 10:09	23.74	ft
BY-AP-MW-24H	Oxidation Reduction Potention	5/24/2022 10:09	-80.03	mv
BY-AP-MW-24H	pH	5/24/2022 10:09	6.22	SU
BY-AP-MW-24H	Temperature	5/24/2022 10:09	21.65	C
BY-AP-MW-24H	Turbidity	5/24/2022 10:09	3.44	NTU
BY-AP-MW-24H	Conductivity	5/24/2022 10:14	788.97	uS/cm
BY-AP-MW-24H	DO	5/24/2022 10:14	0.15	mg/L
BY-AP-MW-24H	Depth to Water Detail	5/24/2022 10:14	23.74	ft
BY-AP-MW-24H	Oxidation Reduction Potention	5/24/2022 10:14	-81.82	mv
BY-AP-MW-24H	pH	5/24/2022 10:14	6.24	SU
BY-AP-MW-24H	Temperature	5/24/2022 10:14	21.85	C
BY-AP-MW-24H	Turbidity	5/24/2022 10:14	4.94	NTU
BY-AP-MW-24H	Conductivity	5/24/2022 10:19	791.93	uS/cm
BY-AP-MW-24H	DO	5/24/2022 10:19	0.18	mg/L
BY-AP-MW-24H	Depth to Water Detail	5/24/2022 10:19	23.74	ft
BY-AP-MW-24H	Oxidation Reduction Potention	5/24/2022 10:19	-81.4	mv
BY-AP-MW-24H	pH	5/24/2022 10:19	6.25	SU
BY-AP-MW-24H	Temperature	5/24/2022 10:19	22.06	C
BY-AP-MW-24H	Turbidity	5/24/2022 10:19	3.26	NTU
BY-AP-MW-24H	Conductivity	5/24/2022 10:24	793.76	uS/cm
BY-AP-MW-24H	DO	5/24/2022 10:24	0.21	mg/L
BY-AP-MW-24H	Depth to Water Detail	5/24/2022 10:24	23.74	ft
BY-AP-MW-24H	Oxidation Reduction Potention	5/24/2022 10:24	-79.76	mv
BY-AP-MW-24H	pH	5/24/2022 10:24	6.26	SU
BY-AP-MW-24H	Temperature	5/24/2022 10:24	23.44	C
BY-AP-MW-24H	Turbidity	5/24/2022 10:24	2.17	NTU
BY-AP-MW-24H	Conductivity	5/24/2022 10:29	792.5	uS/cm
BY-AP-MW-24H	DO	5/24/2022 10:29	0.1	mg/L
BY-AP-MW-24H	Depth to Water Detail	5/24/2022 10:29	23.74	ft
BY-AP-MW-24H	Oxidation Reduction Potention	5/24/2022 10:29	-80.03	mv
BY-AP-MW-24H	pH	5/24/2022 10:29	6.22	SU
BY-AP-MW-24H	Sulfide	5/24/2022 10:29	0	mg/L
BY-AP-MW-24H	Temperature	5/24/2022 10:29	21.7	C
BY-AP-MW-24H	Turbidity	5/24/2022 10:29	2.5	NTU

BY-AP-MW-25H	Conductivity	5/25/2022 11:21	43.2	uS/cm
BY-AP-MW-25H	DO	5/25/2022 11:21	0.89	mg/L
BY-AP-MW-25H	Depth to Water Detail	5/25/2022 11:21	20.26	ft
BY-AP-MW-25H	Oxidation Reduction Potention	5/25/2022 11:21	269.23	mv
BY-AP-MW-25H	pH	5/25/2022 11:21	5.23	SU
BY-AP-MW-25H	Temperature	5/25/2022 11:21	22.56	C
BY-AP-MW-25H	Turbidity	5/25/2022 11:21	1.62	NTU
BY-AP-MW-25H	Conductivity	5/25/2022 11:26	43.16	uS/cm
BY-AP-MW-25H	DO	5/25/2022 11:26	0.87	mg/L
BY-AP-MW-25H	Depth to Water Detail	5/25/2022 11:26	20.26	ft
BY-AP-MW-25H	Oxidation Reduction Potention	5/25/2022 11:26	286.65	mv
BY-AP-MW-25H	pH	5/25/2022 11:26	5.06	SU
BY-AP-MW-25H	Temperature	5/25/2022 11:26	22.6	C
BY-AP-MW-25H	Turbidity	5/25/2022 11:26	1.21	NTU
BY-AP-MW-25H	Conductivity	5/25/2022 11:31	43.04	uS/cm
BY-AP-MW-25H	DO	5/25/2022 11:31	0.86	mg/L
BY-AP-MW-25H	Depth to Water Detail	5/25/2022 11:31	20.26	ft
BY-AP-MW-25H	Oxidation Reduction Potention	5/25/2022 11:31	286.9	mv
BY-AP-MW-25H	pH	5/25/2022 11:31	5.15	SU
BY-AP-MW-25H	Temperature	5/25/2022 11:31	22.44	C
BY-AP-MW-25H	Turbidity	5/25/2022 11:31	1.01	NTU
BY-AP-MW-25H	Conductivity	5/25/2022 11:36	43	uS/cm
BY-AP-MW-25H	DO	5/25/2022 11:36	0.84	mg/L
BY-AP-MW-25H	Depth to Water Detail	5/25/2022 11:36	20.26	ft
BY-AP-MW-25H	Oxidation Reduction Potention	5/25/2022 11:36	285.43	mv
BY-AP-MW-25H	pH	5/25/2022 11:36	5.23	SU
BY-AP-MW-25H	Sulfide	5/25/2022 11:36	0	mg/L
BY-AP-MW-25H	Temperature	5/25/2022 11:36	22.54	C
BY-AP-MW-25H	Turbidity	5/25/2022 11:36	0.93	NTU

BY-AP-MW-25V	Conductivity	5/25/2022 10:30	29.76	uS/cm
BY-AP-MW-25V	DO	5/25/2022 10:30	3.52	mg/L
BY-AP-MW-25V	Depth to Water Detail	5/25/2022 10:30	20.33	ft
BY-AP-MW-25V	Oxidation Reduction Potention	5/25/2022 10:30	231.5	mv
BY-AP-MW-25V	pH	5/25/2022 10:30	5.42	SU
BY-AP-MW-25V	Temperature	5/25/2022 10:30	22.45	C
BY-AP-MW-25V	Turbidity	5/25/2022 10:30	2.16	NTU
BY-AP-MW-25V	Conductivity	5/25/2022 10:35	29.66	uS/cm
BY-AP-MW-25V	DO	5/25/2022 10:35	3.53	mg/L
BY-AP-MW-25V	Depth to Water Detail	5/25/2022 10:35	20.33	ft
BY-AP-MW-25V	Oxidation Reduction Potention	5/25/2022 10:35	243.72	mv
BY-AP-MW-25V	pH	5/25/2022 10:35	5.43	SU
BY-AP-MW-25V	Temperature	5/25/2022 10:35	22.3	C
BY-AP-MW-25V	Turbidity	5/25/2022 10:35	1.71	NTU
BY-AP-MW-25V	Conductivity	5/25/2022 10:38	29.78	uS/cm
BY-AP-MW-25V	DO	5/25/2022 10:38	3.55	mg/L
BY-AP-MW-25V	Depth to Water Detail	5/25/2022 10:38	20.33	ft
BY-AP-MW-25V	Oxidation Reduction Potention	5/25/2022 10:38	242.97	mv
BY-AP-MW-25V	pH	5/25/2022 10:38	5.51	SU
BY-AP-MW-25V	Temperature	5/25/2022 10:38	22.31	C
BY-AP-MW-25V	Turbidity	5/25/2022 10:38	1.47	NTU
BY-AP-MW-25V	Conductivity	5/25/2022 10:43	29.77	uS/cm
BY-AP-MW-25V	DO	5/25/2022 10:43	3.54	mg/L
BY-AP-MW-25V	Depth to Water Detail	5/25/2022 10:43	20.33	ft
BY-AP-MW-25V	Oxidation Reduction Potention	5/25/2022 10:43	255.12	mv
BY-AP-MW-25V	pH	5/25/2022 10:43	5.45	SU
BY-AP-MW-25V	Temperature	5/25/2022 10:43	22.39	C
BY-AP-MW-25V	Turbidity	5/25/2022 10:43	1.47	NTU
BY-AP-MW-25V	Conductivity	5/25/2022 10:48	29.82	uS/cm
BY-AP-MW-25V	DO	5/25/2022 10:48	3.54	mg/L
BY-AP-MW-25V	Depth to Water Detail	5/25/2022 10:48	20.33	ft
BY-AP-MW-25V	Oxidation Reduction Potention	5/25/2022 10:48	261.01	mv
BY-AP-MW-25V	pH	5/25/2022 10:48	5.45	SU
BY-AP-MW-25V	Sulfide	5/25/2022 10:48	0	mg/L
BY-AP-MW-25V	Temperature	5/25/2022 10:48	22.35	C
BY-AP-MW-25V	Turbidity	5/25/2022 10:48	1.53	NTU

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWBARPU_1372

Project/Site : Barry Pooled Upgradient
Bucks, AL 36512

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Brooke Caton
tbwill@southernco.com
(205) 664-6101

June 16, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2022.06.16
09:10:32 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, o=US
United States, ou=United States
e=tdmaske@southernco.com
Reason: I am approving this document
Location:
Date: 2022-06-16 10:06:05.00



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728204	WMWBARPU_1372
BC10403	728204	WMWBARPU_1372
BC10404	728204	WMWBARPU_1372
BC10405	728204	WMWBARPU_1372
BC10406	728204	WMWBARPU_1372
BC10407	728204	WMWBARPU_1372
BC10408	728204	WMWBARPU_1372

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC10402	Iron	10.15

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728219	WMWBARPU_1372
BC10403	728219	WMWBARPU_1372
BC10405	728219	WMWBARPU_1372
BC10406	728219	WMWBARPU_1372
BC10407	728219	WMWBARPU_1372

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Revision 5

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following sample was diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC10402	Iron	10.15

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728449	WMWBARPU_1372
BC10403	728449	WMWBARPU_1372
BC10404	728449	WMWBARPU_1372
BC10405	728449	WMWBARPU_1372
BC10406	728449	WMWBARPU_1372
BC10407	728449	WMWBARPU_1372
BC10408	728449	WMWBARPU_1372

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any

qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728465	WMWBARPU_1372
BC10403	728465	WMWBARPU_1372
BC10405	728465	WMWBARPU_1372
BC10406	728465	WMWBARPU_1372
BC10407	728465	WMWBARPU_1372

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Mercury

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728373	WMWBARPU_1372
BC10403	728373	WMWBARPU_1372
BC10404	728373	WMWBARPU_1372
BC10405	728373	WMWBARPU_1372
BC10406	728373	WMWBARPU_1372
BC10407	728373	WMWBARPU_1372
BC10408	728373	WMWBARPU_1372

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Revision 5

- A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.

Total Dissolved Solids

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728167	WMWBARPU_1372
BC10403	728167	WMWBARPU_1372
BC10404	728167	WMWBARPU_1372
BC10405	728167	WMWBARPU_1372
BC10406	728167	WMWBARPU_1372
BC10407	728167	WMWBARPU_1372
BC10408	728167	WMWBARPU_1372

4. All of the above samples were prepared and analyzed by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch, and RPD was $\leq 10\%$.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue $< 2.5\text{mg}$ had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC10404
 - BC10408

Alkalinity

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728840,728841	WMWBARPU_1372
BC10403	728840,728841	WMWBARPU_1372
BC10405	728840,728841	WMWBARPU_1372
BC10406	728840,728841	WMWBARPU_1372
BC10407	728840,728841	WMWBARPU_1372

4. All of the above samples were prepared and analyzed by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
- A final pH check was analyzed with each batch. The acceptance criteria were met.
- An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
- An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met, except for the following:
 - BC10407 Precision is invalid due to sample concentration.

Anions

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728178,728649,728620	WMWBARPU_1372
BC10403	728178,728649,728620	WMWBARPU_1372
BC10404	728178,728649,728620	WMWBARPU_1372
BC10405	728178,728649,728620	WMWBARPU_1372
BC10406	728178,728649,728620	WMWBARPU_1372
BC10407	728178,728649,728620	WMWBARPU_1372
BC10408	728178,728649,728620	WMWBARPU_1372

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, and SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below half the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without dilution.

Nitrate-Nitrite

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728305	WMWBARPU_1372
BC10403	728305	WMWBARPU_1372
BC10404	728305	WMWBARPU_1372
BC10405	728305	WMWBARPU_1372
BC10406	728305	WMWBARPU_1372
BC10407	728305	WMWBARPU_1372
BC10408	728305	WMWBARPU_1372

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Barry Pooled Upgradient

WMWBARPU_1372

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC10402	728186	WMWBARPU_1372
BC10403	728186	WMWBARPU_1372
BC10404	728186	WMWBARPU_1372
BC10405	728186	WMWBARPU_1372
BC10406	728186	WMWBARPU_1372
BC10407	728186	WMWBARPU_1372
BC10408	728186	WMWBARPU_1372

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.

7. All samples were analyzed without a dilution factor.
8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-1

Location Code: WMWBARPU
Collected: 5/31/22 13:24
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/6/22 09:22	6/8/22 09:50		1.015	0.0567	mg/L	0.030000	0.1015	J
* Calcium, Total	6/6/22 09:22	6/8/22 09:50		1.015	1.14	mg/L	0.070035	0.406	
* Iron, Total	6/6/22 09:22	6/8/22 10:16		10.15	4.80	mg/L	0.08120	0.406	
* Lithium, Total	6/6/22 09:22	6/8/22 09:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/6/22 09:22	6/8/22 09:50		1.015	2.23	mg/L	0.021315	0.406	
Silica, Total (calc.)	6/6/22 09:22	6/8/22 09:50		1	6.74	mg/L			
Silicon, Total	6/6/22 09:22	6/8/22 09:50		1.015	3.15	mg/L	0.02030	0.25375	
* Sodium, Total	6/6/22 09:22	6/8/22 09:50		1.015	2.05	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	6/6/22 09:06	6/8/22 11:12		1.015	0.0564	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	6/6/22 09:06	6/8/22 11:12		1.015	1.13	mg/L	0.070035	0.406	
* Iron, Dissolved	6/6/22 09:06	6/8/22 11:32		10.15	4.08	mg/L	0.08120	0.406	
* Lithium, Dissolved	6/6/22 09:06	6/8/22 11:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/6/22 09:06	6/8/22 11:12		1.015	2.25	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	6/6/22 09:06	6/8/22 11:12		1	6.83	mg/L			
Silicon, Dissolved	6/6/22 09:06	6/8/22 11:12		1.015	3.19	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/6/22 09:06	6/8/22 11:12		1.015	2.09	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/6/22 07:13	6/6/22 14:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/6/22 07:13	6/6/22 14:37		1.015	0.0898	mg/L	0.006090	0.01015	
* Arsenic, Total	6/6/22 07:13	6/6/22 14:37		1.015	0.000237	mg/L	0.000081	0.000203	
* Barium, Total	6/6/22 07:13	6/6/22 14:37		1.015	0.100	mg/L	0.000508	0.001015	
* Beryllium, Total	6/6/22 07:13	6/6/22 14:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/6/22 07:13	6/6/22 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/6/22 07:13	6/6/22 14:37		1.015	0.000334	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/6/22 07:13	6/6/22 14:37		1.015	0.00487	mg/L	0.000068	0.000203	
* Lead, Total	6/6/22 07:13	6/6/22 14:37		1.015	0.0000838	mg/L	0.000068	0.000203	J
* Manganese, Total	6/6/22 07:13	6/6/22 14:37		1.015	0.154	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/6/22 07:13	6/6/22 14:37		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/6/22 07:13	6/6/22 14:37		1.015	0.444	mg/L	0.169505	0.5075	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-1

Location Code: WMWBARPU
Collected: 5/31/22 13:24
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/6/22 07:13	6/6/22 14:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/6/22 07:13	6/6/22 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	0.0534	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	0.000168	mg/L	0.000081	0.000203	J
* Barium, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	0.101	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	0.000231	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	0.00484	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	0.155	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	0.458	mg/L	0.169505	0.5075	J
* Selenium, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/6/22 07:31	6/6/22 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/7/22 11:15	6/7/22 13:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	6/6/22 12:38	6/6/22 12:38		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/10/22 13:35	6/10/22 14:52		1	8.56	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	6/3/22 13:15	6/6/22 13:42		1	32.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	8.56	mg/L			
Carbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/8/22 01:15	6/8/22 01:15		1	1.58	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-1

Location Code: WMWBARPU

Collected: 5/31/22 13:24

Customer ID:

Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10402

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/6/22 12:56	6/6/22 12:56		1	1.93	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 13:27	6/8/22 13:27		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 16:10	6/7/22 16:10		1	12.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/31/22 13:21	5/31/22 13:21			57.06	uS/cm			FA
pH	5/31/22 13:21	5/31/22 13:21			3.89	SU			FA
Temperature	5/31/22 13:21	5/31/22 13:21			20.77	C			FA
Turbidity	5/31/22 13:21	5/31/22 13:21			2	NTU			FA
Sulfide	5/31/22 13:21	5/31/22 13:21			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/31/22 13:24
Customer ID:
Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-1

Laboratory ID Number: BC10402

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC10407	Aluminum, Dissolved	mg/L	0.000977	0.010	0.100	0.124	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	3.17	20.0
BC10408	Aluminum, Total	mg/L	0.000555	0.010	0.100	0.110	0.106	0.106	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC10407	Antimony, Dissolved	mg/L	0.000304	0.00100	0.100	0.0937	0.0957	0.0923	0.0850 to 0.115	93.7	70.0 to 130	2.11	20.0
BC10408	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0896	0.0901	0.0945	0.0850 to 0.115	89.6	70.0 to 130	0.556	20.0
BC10407	Arsenic, Dissolved	mg/L	0.000034	0.000176	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC10408	Arsenic, Total	mg/L	0.0000173	0.000176	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10407	Barium, Dissolved	mg/L	0.0000071	0.00100	0.100	0.229	0.234	0.103	0.0850 to 0.115	100	70.0 to 130	2.16	20.0
BC10408	Barium, Total	mg/L	0.0000192	0.00100	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC10407	Beryllium, Dissolved	mg/L	0.0000130	0.000880	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Beryllium, Total	mg/L	0.0000106	0.000880	0.100	0.103	0.0970	0.0977	0.0850 to 0.115	103	70.0 to 130	6.00	20.0
BC10407	Boron, Dissolved	mg/L	0.000221	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Boron, Total	mg/L	0.000098	0.0650	1.00	0.990	0.990	1.01	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC10407	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0997	0.103	0.101	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BC10408	Cadmium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.0997	0.102	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BC10407	Calcium, Dissolved	mg/L	-0.00230	0.152	5.00	6.91	6.88	4.88	4.25 to 5.75	97.6	70.0 to 130	0.435	20.0
BC10408	Calcium, Total	mg/L	-0.00539	0.152	5.00	4.87	4.79	4.93	4.25 to 5.75	97.4	70.0 to 130	1.66	20.0
BC10408	Chloride	mg/L	-0.0327	1.00	10.0	10.6	10.6	9.58	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC10407	Chromium, Dissolved	mg/L	0.0000008	0.000440	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC10408	Chromium, Total	mg/L	0.0000337	0.000440	0.100	0.103	0.100	0.102	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC10407	Cobalt, Dissolved	mg/L	-0.0000006	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	0.939	20.0
BC10408	Cobalt, Total	mg/L	0.0000018	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC10408	Fluoride	mg/L	0.00175	0.125	2.50	2.53	2.56	2.54	2.25 to 2.75	101	80.0 to 120	1.18	20.0
BC10407	Iron, Dissolved	mg/L	-0.000261	0.0176	0.2	0.201	0.200	0.200	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/31/22 13:24
Customer ID:
Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-1

Laboratory ID Number: BC10402

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10408	Iron, Total	mg/L	0.000083	0.0176	0.2	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BC10407	Lead, Dissolved	mg/L	0.0000066	0.000147	0.100	0.108	0.104	0.109	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC10408	Lead, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC10407	Lithium, Dissolved	mg/L	0.000211	0.0154	0.200	0.201	0.202	0.201	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BC10408	Lithium, Total	mg/L	0.000209	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC10407	Magnesium, Dissolved	mg/L	-0.00997	0.0462	5.00	7.28	7.22	5.16	4.25 to 5.75	103	70.0 to 130	0.828	20.0
BC10408	Magnesium, Total	mg/L	-0.00569	0.0462	5.00	5.11	5.07	5.18	4.25 to 5.75	102	70.0 to 130	0.786	20.0
BC10407	Manganese, Dissolved	mg/L	0.0000037	0.0002	0.100	0.118	0.120	0.103	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BC10408	Manganese, Total	mg/L	0.0000112	0.0002	0.100	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC10408	Mercury, Total by CVAA	mg/L	0.000134	0.000500	0.004	0.00425	0.00421	0.00400	0.00340 to 0.00460	106	70.0 to 130	0.946	20.0
BC10407	Molybdenum, Dissolved	mg/L	0.0000017	0.0002	0.100	0.0978	0.100	0.0987	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BC10408	Molybdenum, Total	mg/L	-0.0000073	0.0002	0.100	0.0990	0.0981	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.913	20.0
BC10407	Potassium, Dissolved	mg/L	0.00152	0.367	10.0	11.0	11.1	9.97	8.50 to 11.5	99.9	70.0 to 130	0.905	20.0
BC10408	Potassium, Total	mg/L	0.0102	0.367	10.0	10.2	10.0	10.2	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC10407	Selenium, Dissolved	mg/L	-0.0000214	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Selenium, Total	mg/L	0.0000056	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC10407	Silicon, Dissolved	mg/L	-0.00110	0.0440	1.00	5.02	5.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Silicon, Total	mg/L	-0.000555	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC10407	Sodium, Dissolved	mg/L	-0.000155	0.0660	5.00	7.73	7.76	5.13	4.25 to 5.75	102	70.0 to 130	0.387	20.0
BC10408	Sodium, Total	mg/L	0.00196	0.0660	5.00	5.16	5.17	5.17	4.25 to 5.75	103	70.0 to 130	0.194	20.0
BC10408	Sulfate	mg/L	-0.0817	2.0	20.0	20.1	20.4	19.0	18.0 to 22.0	100	80.0 to 120	1.48	20.0
BC10407	Thallium, Dissolved	mg/L	0.0000086	0.000147	0.100	0.109	0.105	0.110	0.0850 to 0.115	109	70.0 to 130	3.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 13:24

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-1

Laboratory ID Number: BC10402

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC10408	Thallium, Total	mg/L	0.0000118	0.000147	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC10408	Total Organic Carbon	mg/L	0.160	1.00	10.0	10.0	10.2	25.1		100	80.0 to 120	1.98	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 13:24

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-1

Laboratory ID Number: BC10402

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10407	Alkalinity, Total as CaCO3	mg/L					0.680	52.5	45.0 to 55.0			42.9	10.0
BC10408	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	2.12	0.073	2.01	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC10407	Solids, Dissolved	mg/L	0.0000	25.0			36.0	50.0	40.0 to 60.0			1.93	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-2

Location Code: WMWBARPU
Collected: 5/31/22 14:28
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10403

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/6/22 09:22	6/8/22 09:53		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/6/22 09:22	6/8/22 09:53		1.015	1.24	mg/L	0.070035	0.406	
* Iron, Total	6/6/22 09:22	6/8/22 09:53		1.015	0.0704	mg/L	0.008120	0.0406	
* Lithium, Total	6/6/22 09:22	6/8/22 09:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/6/22 09:22	6/8/22 09:53		1.015	2.48	mg/L	0.021315	0.406	
Silica, Total (calc.)	6/6/22 09:22	6/8/22 09:53		1	8.39	mg/L			
Silicon, Total	6/6/22 09:22	6/8/22 09:53		1.015	3.92	mg/L	0.02030	0.25375	
* Sodium, Total	6/6/22 09:22	6/8/22 09:53		1.015	2.25	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	6/6/22 09:06	6/8/22 11:15		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/6/22 09:06	6/8/22 11:15		1.015	1.26	mg/L	0.070035	0.406	
* Iron, Dissolved	6/6/22 09:06	6/8/22 11:15		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/6/22 09:06	6/8/22 11:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/6/22 09:06	6/8/22 11:15		1.015	2.48	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	6/6/22 09:06	6/8/22 11:15		1	8.26	mg/L			
Silicon, Dissolved	6/6/22 09:06	6/8/22 11:15		1.015	3.86	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/6/22 09:06	6/8/22 11:15		1.015	2.25	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/6/22 07:13	6/6/22 14:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.127	mg/L	0.006090	0.01015	
* Arsenic, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.0000879	mg/L	0.000081	0.000203	J
* Barium, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.153	mg/L	0.000508	0.001015	
* Beryllium, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.000413	mg/L	0.000406	0.001015	J
* Cadmium, Total	6/6/22 07:13	6/6/22 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.00120	mg/L	0.000203	0.001015	
* Cobalt, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.00194	mg/L	0.000068	0.000203	
* Lead, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.0000781	mg/L	0.000068	0.000203	J
* Manganese, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.0241	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/6/22 07:13	6/6/22 14:40		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.905	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-2

Location Code: WMWBARPU
Collected: 5/31/22 14:28
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10403

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/6/22 07:13	6/6/22 14:40		1.015	0.000633	mg/L	0.000508	0.001015	J
* Thallium, Total	6/6/22 07:13	6/6/22 14:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	0.0788	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	0.153	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	0.000413	mg/L	0.000406	0.001015	J
* Cadmium, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	0.000998	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	0.00187	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	0.0235	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	0.885	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	0.000575	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	6/6/22 07:31	6/6/22 12:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/7/22 11:15	6/7/22 13:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	6/6/22 12:39	6/6/22 12:39		1	1.84	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/10/22 13:35	6/10/22 14:52		1	0.44	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	6/3/22 13:15	6/6/22 13:42		1	30.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	Not Detected	mg/L		1	
Carbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/8/22 01:35	6/8/22 01:35		1	1.14	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-2

Location Code: WMWBARPU

Collected: 5/31/22 14:28

Customer ID:

Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10403

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/6/22 12:57	6/6/22 12:57		1	2.17	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 13:28	6/8/22 13:28		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 16:11	6/7/22 16:11		1	8.09	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/31/22 14:25	5/31/22 14:25			50.04	uS/cm			FA
pH	5/31/22 14:25	5/31/22 14:25			3.31	SU			FA
Temperature	5/31/22 14:25	5/31/22 14:25			20.00	C			FA
Turbidity	5/31/22 14:25	5/31/22 14:25			4.82	NTU			FA
Sulfide	5/31/22 14:25	5/31/22 14:25			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 14:28

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-2

Laboratory ID Number: BC10403

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC10407	Aluminum, Dissolved	mg/L	0.000977	0.010	0.100	0.124	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	3.17	20.0
BC10408	Aluminum, Total	mg/L	0.000555	0.010	0.100	0.110	0.106	0.106	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC10407	Antimony, Dissolved	mg/L	0.000304	0.00100	0.100	0.0937	0.0957	0.0923	0.0850 to 0.115	93.7	70.0 to 130	2.11	20.0
BC10408	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0896	0.0901	0.0945	0.0850 to 0.115	89.6	70.0 to 130	0.556	20.0
BC10407	Arsenic, Dissolved	mg/L	0.000034	0.000176	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC10408	Arsenic, Total	mg/L	0.0000173	0.000176	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10407	Barium, Dissolved	mg/L	0.0000071	0.00100	0.100	0.229	0.234	0.103	0.0850 to 0.115	100	70.0 to 130	2.16	20.0
BC10408	Barium, Total	mg/L	0.0000192	0.00100	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC10407	Beryllium, Dissolved	mg/L	0.0000130	0.000880	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Beryllium, Total	mg/L	0.0000106	0.000880	0.100	0.103	0.0970	0.0977	0.0850 to 0.115	103	70.0 to 130	6.00	20.0
BC10407	Boron, Dissolved	mg/L	0.000221	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Boron, Total	mg/L	0.000098	0.0650	1.00	0.990	0.990	1.01	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC10407	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0997	0.103	0.101	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BC10408	Cadmium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.0997	0.102	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BC10407	Calcium, Dissolved	mg/L	-0.00230	0.152	5.00	6.91	6.88	4.88	4.25 to 5.75	97.6	70.0 to 130	0.435	20.0
BC10408	Calcium, Total	mg/L	-0.00539	0.152	5.00	4.87	4.79	4.93	4.25 to 5.75	97.4	70.0 to 130	1.66	20.0
BC10408	Chloride	mg/L	-0.0327	1.00	10.0	10.6	10.6	9.58	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC10407	Chromium, Dissolved	mg/L	0.0000008	0.000440	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC10408	Chromium, Total	mg/L	0.0000337	0.000440	0.100	0.103	0.100	0.102	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC10407	Cobalt, Dissolved	mg/L	-0.0000006	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	0.939	20.0
BC10408	Cobalt, Total	mg/L	0.0000018	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC10408	Fluoride	mg/L	0.00175	0.125	2.50	2.53	2.56	2.54	2.25 to 2.75	101	80.0 to 120	1.18	20.0
BC10407	Iron, Dissolved	mg/L	-0.000261	0.0176	0.2	0.201	0.200	0.200	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/31/22 14:28
Customer ID:
Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-2

Laboratory ID Number: BC10403

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10408	Iron, Total	mg/L	0.000083	0.0176	0.2	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BC10407	Lead, Dissolved	mg/L	0.0000066	0.000147	0.100	0.108	0.104	0.109	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC10408	Lead, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC10407	Lithium, Dissolved	mg/L	0.000211	0.0154	0.200	0.201	0.202	0.201	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BC10408	Lithium, Total	mg/L	0.000209	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC10407	Magnesium, Dissolved	mg/L	-0.00997	0.0462	5.00	7.28	7.22	5.16	4.25 to 5.75	103	70.0 to 130	0.828	20.0
BC10408	Magnesium, Total	mg/L	-0.00569	0.0462	5.00	5.11	5.07	5.18	4.25 to 5.75	102	70.0 to 130	0.786	20.0
BC10407	Manganese, Dissolved	mg/L	0.0000037	0.0002	0.100	0.118	0.120	0.103	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BC10408	Manganese, Total	mg/L	0.0000112	0.0002	0.100	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC10408	Mercury, Total by CVAA	mg/L	0.000134	0.000500	0.004	0.00425	0.00421	0.00400	0.00340 to 0.00460	106	70.0 to 130	0.946	20.0
BC10407	Molybdenum, Dissolved	mg/L	0.0000017	0.0002	0.100	0.0978	0.100	0.0987	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BC10408	Molybdenum, Total	mg/L	-0.0000073	0.0002	0.100	0.0990	0.0981	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.913	20.0
BC10407	Potassium, Dissolved	mg/L	0.00152	0.367	10.0	11.0	11.1	9.97	8.50 to 11.5	99.9	70.0 to 130	0.905	20.0
BC10408	Potassium, Total	mg/L	0.0102	0.367	10.0	10.2	10.0	10.2	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC10407	Selenium, Dissolved	mg/L	-0.0000214	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Selenium, Total	mg/L	0.0000056	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC10407	Silicon, Dissolved	mg/L	-0.00110	0.0440	1.00	5.02	5.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Silicon, Total	mg/L	-0.000555	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC10407	Sodium, Dissolved	mg/L	-0.000155	0.0660	5.00	7.73	7.76	5.13	4.25 to 5.75	102	70.0 to 130	0.387	20.0
BC10408	Sodium, Total	mg/L	0.00196	0.0660	5.00	5.16	5.17	5.17	4.25 to 5.75	103	70.0 to 130	0.194	20.0
BC10408	Sulfate	mg/L	-0.0817	2.0	20.0	20.1	20.4	19.0	18.0 to 22.0	100	80.0 to 120	1.48	20.0
BC10407	Thallium, Dissolved	mg/L	0.0000086	0.000147	0.100	0.109	0.105	0.110	0.0850 to 0.115	109	70.0 to 130	3.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/31/22 14:28
Customer ID:
Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-2

Laboratory ID Number: BC10403

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC10408	Thallium, Total	mg/L	0.0000118	0.000147	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC10408	Total Organic Carbon	mg/L	0.160	1.00	10.0	10.0	10.2	25.1		100	80.0 to 120	1.98	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 14:28

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-2

Laboratory ID Number: BC10403

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10407	Alkalinity, Total as CaCO3	mg/L					0.680	52.5	45.0 to 55.0			42.9	10.0
BC10408	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	2.12	0.073	2.01	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC10407	Solids, Dissolved	mg/L	0.0000	25.0			36.0	50.0	40.0 to 60.0			1.93	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient Field Blank-1

Location Code: WMWBARPUFB
Collected: 5/31/22 14:45
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/6/22 09:22	6/8/22 09:56		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/6/22 09:22	6/8/22 09:56		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/6/22 09:22	6/8/22 09:56		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/6/22 09:22	6/8/22 09:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/6/22 09:22	6/8/22 09:56		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	6/6/22 09:22	6/8/22 09:56		1	Not Detected	mg/L			
Silicon, Total	6/6/22 09:22	6/8/22 09:56		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	6/6/22 09:22	6/8/22 09:56		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/6/22 07:13	6/6/22 14:44		1.015	0.000273	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/6/22 07:13	6/6/22 14:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	6/7/22 11:15	6/7/22 13:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: CES						
* Nitrogen, Nitrate/Nitrite	6/6/22 12:41	6/6/22 12:41		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	6/3/22 13:15	6/6/22 13:42		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Pooled Upgradient Field Blank-1

Location Code: WMWBARPUFB

Collected: 5/31/22 14:45

Customer ID:

Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10404

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/8/22 01:56	6/8/22 01:56		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/6/22 12:58	6/6/22 12:58		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 13:29	6/8/22 13:29		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 16:13	6/7/22 16:13		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARPUFB

Sample Date: 5/31/22 14:45

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient Field Blank-1

Laboratory ID Number: BC10404

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10408	Aluminum, Total	mg/L	0.000555	0.010	0.100	0.110	0.106	0.106	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC10408	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0896	0.0901	0.0945	0.0850 to 0.115	89.6	70.0 to 130	0.556	20.0
BC10408	Arsenic, Total	mg/L	0.0000173	0.000176	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10408	Barium, Total	mg/L	0.0000192	0.00100	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC10408	Beryllium, Total	mg/L	0.0000106	0.000880	0.100	0.103	0.0970	0.0977	0.0850 to 0.115	103	70.0 to 130	6.00	20.0
BC10408	Boron, Total	mg/L	0.000098	0.0650	1.00	0.990	0.990	1.01	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC10408	Cadmium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.0997	0.102	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BC10408	Calcium, Total	mg/L	-0.00539	0.152	5.00	4.87	4.79	4.93	4.25 to 5.75	97.4	70.0 to 130	1.66	20.0
BC10408	Chloride	mg/L	-0.0327	1.00	10.0	10.6	10.6	9.58	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC10408	Chromium, Total	mg/L	0.0000337	0.000440	0.100	0.103	0.100	0.102	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC10408	Cobalt, Total	mg/L	0.0000018	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC10408	Fluoride	mg/L	0.00175	0.125	2.50	2.53	2.56	2.54	2.25 to 2.75	101	80.0 to 120	1.18	20.0
BC10408	Iron, Total	mg/L	0.000083	0.0176	0.2	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BC10408	Lead, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC10408	Lithium, Total	mg/L	0.000209	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC10408	Magnesium, Total	mg/L	-0.00569	0.0462	5.00	5.11	5.07	5.18	4.25 to 5.75	102	70.0 to 130	0.786	20.0
BC10408	Manganese, Total	mg/L	0.0000112	0.0002	0.100	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC10408	Mercury, Total by CVAA	mg/L	0.000134	0.000500	0.004	0.00425	0.00421	0.00400	0.00340 to 0.00460	106	70.0 to 130	0.946	20.0
BC10408	Molybdenum, Total	mg/L	-0.0000073	0.0002	0.100	0.0990	0.0981	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.913	20.0
BC10408	Potassium, Total	mg/L	0.0102	0.367	10.0	10.2	10.0	10.2	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC10408	Selenium, Total	mg/L	0.0000056	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC10408	Silicon, Total	mg/L	-0.000555	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC10408	Sodium, Total	mg/L	0.00196	0.0660	5.00	5.16	5.17	5.17	4.25 to 5.75	103	70.0 to 130	0.194	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARPUFB

Sample Date: 5/31/22 14:45

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient Field Blank-1

Laboratory ID Number: BC10404

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC10408	Sulfate	mg/L	-0.0817	2.0	20.0	20.1	20.4	19.0	18.0 to 22.0	100	80.0 to 120	1.48	20.0		
BC10408	Thallium, Total	mg/L	0.0000118	0.000147	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0		
BC10408	Total Organic Carbon	mg/L	0.160	1.00	10.0	10.0	10.2	25.1		100	80.0 to 120	1.98	20.0		

Comments:

Batch QC Summary

Customer Account: WMWBARPUFB

Sample Date: 5/31/22 14:45

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient Field Blank-1

Laboratory ID Number: BC10404

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec Limit	Prec	Prec Limit
BC10408	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	2.12	0.073	2.01	1.80 to 2.20	106	90.0 to 110	0.00 15.0
BC10407	Solids, Dissolved	mg/L	0.0000	25.0			36.0	50.0	40.0 to 60.0			1.93 10.0

Comments:

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3

Location Code: WMWBARPU
Collected: 5/31/22 15:22
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/6/22 09:22	6/8/22 09:59		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/6/22 09:22	6/8/22 09:59		1.015	1.95	mg/L	0.070035	0.406	
* Iron, Total	6/6/22 09:22	6/8/22 09:59		1.015	0.0270	mg/L	0.008120	0.0406	J
* Lithium, Total	6/6/22 09:22	6/8/22 09:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/6/22 09:22	6/8/22 09:59		1.015	2.05	mg/L	0.021315	0.406	
Silica, Total (calc.)	6/6/22 09:22	6/8/22 09:59		1	8.60	mg/L			
Silicon, Total	6/6/22 09:22	6/8/22 09:59		1.015	4.02	mg/L	0.02030	0.25375	
* Sodium, Total	6/6/22 09:22	6/8/22 09:59		1.015	3.11	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	6/6/22 09:06	6/8/22 11:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/6/22 09:06	6/8/22 11:17		1.015	1.94	mg/L	0.070035	0.406	
* Iron, Dissolved	6/6/22 09:06	6/8/22 11:17		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/6/22 09:06	6/8/22 11:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/6/22 09:06	6/8/22 11:17		1.015	2.01	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	6/6/22 09:06	6/8/22 11:17		1	8.52	mg/L			
Silicon, Dissolved	6/6/22 09:06	6/8/22 11:17		1.015	3.98	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/6/22 09:06	6/8/22 11:17		1.015	3.11	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/6/22 07:13	6/6/22 14:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/6/22 07:13	6/6/22 14:47		1.015	0.0446	mg/L	0.006090	0.01015	
* Arsenic, Total	6/6/22 07:13	6/6/22 14:47		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	6/6/22 07:13	6/6/22 14:47		1.015	0.0992	mg/L	0.000508	0.001015	
* Beryllium, Total	6/6/22 07:13	6/6/22 14:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/6/22 07:13	6/6/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/6/22 07:13	6/6/22 14:47		1.015	0.00139	mg/L	0.000203	0.001015	
* Cobalt, Total	6/6/22 07:13	6/6/22 14:47		1.015	0.00149	mg/L	0.000068	0.000203	
* Lead, Total	6/6/22 07:13	6/6/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/6/22 07:13	6/6/22 14:47		1.015	0.0196	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/6/22 07:13	6/6/22 14:47		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/6/22 07:13	6/6/22 14:47		1.015	0.987	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3

Location Code: WMWBARPU
Collected: 5/31/22 15:22
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/6/22 07:13	6/6/22 14:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/6/22 07:13	6/6/22 14:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	0.0232	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	0.101	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	0.00129	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	0.00154	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	0.0198	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	0.961	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/6/22 07:31	6/6/22 12:46		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/7/22 11:15	6/7/22 13:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	6/6/22 12:42	6/6/22 12:42		1	2.11	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/10/22 13:35	6/10/22 14:52		1	1.24	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	6/3/22 13:15	6/6/22 13:42		1	35.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	1.24	mg/L			
Carbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/8/22 02:12	6/8/22 02:12		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3

Location Code: WMWBARPU

Collected: 5/31/22 15:22

Customer ID:

Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10405

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/6/22 12:59	6/6/22 12:59		1	3.39	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 13:30	6/8/22 13:30		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 16:14	6/7/22 16:14		1	7.02	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/31/22 15:19	5/31/22 15:19			49.57	uS/cm			FA
pH	5/31/22 15:19	5/31/22 15:19			3.54	SU			FA
Temperature	5/31/22 15:19	5/31/22 15:19			20.09	C			FA
Turbidity	5/31/22 15:19	5/31/22 15:19			3.1	NTU			FA
Sulfide	5/31/22 15:19	5/31/22 15:19			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/31/22 15:22
Customer ID:
Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-3

Laboratory ID Number: BC10405

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC10407	Aluminum, Dissolved	mg/L	0.000977	0.010	0.100	0.124	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	3.17	20.0
BC10408	Aluminum, Total	mg/L	0.000555	0.010	0.100	0.110	0.106	0.106	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC10407	Antimony, Dissolved	mg/L	0.000304	0.00100	0.100	0.0937	0.0957	0.0923	0.0850 to 0.115	93.7	70.0 to 130	2.11	20.0
BC10408	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0896	0.0901	0.0945	0.0850 to 0.115	89.6	70.0 to 130	0.556	20.0
BC10407	Arsenic, Dissolved	mg/L	0.000034	0.000176	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC10408	Arsenic, Total	mg/L	0.0000173	0.000176	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10407	Barium, Dissolved	mg/L	0.0000071	0.00100	0.100	0.229	0.234	0.103	0.0850 to 0.115	100	70.0 to 130	2.16	20.0
BC10408	Barium, Total	mg/L	0.0000192	0.00100	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC10407	Beryllium, Dissolved	mg/L	0.0000130	0.000880	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Beryllium, Total	mg/L	0.0000106	0.000880	0.100	0.103	0.0970	0.0977	0.0850 to 0.115	103	70.0 to 130	6.00	20.0
BC10407	Boron, Dissolved	mg/L	0.000221	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Boron, Total	mg/L	0.000098	0.0650	1.00	0.990	0.990	1.01	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC10407	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0997	0.103	0.101	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BC10408	Cadmium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.0997	0.102	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BC10407	Calcium, Dissolved	mg/L	-0.00230	0.152	5.00	6.91	6.88	4.88	4.25 to 5.75	97.6	70.0 to 130	0.435	20.0
BC10408	Calcium, Total	mg/L	-0.00539	0.152	5.00	4.87	4.79	4.93	4.25 to 5.75	97.4	70.0 to 130	1.66	20.0
BC10408	Chloride	mg/L	-0.0327	1.00	10.0	10.6	10.6	9.58	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC10407	Chromium, Dissolved	mg/L	0.0000008	0.000440	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC10408	Chromium, Total	mg/L	0.0000337	0.000440	0.100	0.103	0.100	0.102	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC10407	Cobalt, Dissolved	mg/L	-0.0000006	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	0.939	20.0
BC10408	Cobalt, Total	mg/L	0.0000018	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC10408	Fluoride	mg/L	0.00175	0.125	2.50	2.53	2.56	2.54	2.25 to 2.75	101	80.0 to 120	1.18	20.0
BC10407	Iron, Dissolved	mg/L	-0.000261	0.0176	0.2	0.201	0.200	0.200	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 15:22

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-3

Laboratory ID Number: BC10405

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10408	Iron, Total	mg/L	0.000083	0.0176	0.2	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BC10407	Lead, Dissolved	mg/L	0.0000066	0.000147	0.100	0.108	0.104	0.109	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC10408	Lead, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC10407	Lithium, Dissolved	mg/L	0.000211	0.0154	0.200	0.201	0.202	0.201	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BC10408	Lithium, Total	mg/L	0.000209	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC10407	Magnesium, Dissolved	mg/L	-0.00997	0.0462	5.00	7.28	7.22	5.16	4.25 to 5.75	103	70.0 to 130	0.828	20.0
BC10408	Magnesium, Total	mg/L	-0.00569	0.0462	5.00	5.11	5.07	5.18	4.25 to 5.75	102	70.0 to 130	0.786	20.0
BC10407	Manganese, Dissolved	mg/L	0.0000037	0.0002	0.100	0.118	0.120	0.103	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BC10408	Manganese, Total	mg/L	0.0000112	0.0002	0.100	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC10408	Mercury, Total by CVAA	mg/L	0.000134	0.000500	0.004	0.00425	0.00421	0.00400	0.00340 to 0.00460	106	70.0 to 130	0.946	20.0
BC10407	Molybdenum, Dissolved	mg/L	0.0000017	0.0002	0.100	0.0978	0.100	0.0987	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BC10408	Molybdenum, Total	mg/L	-0.0000073	0.0002	0.100	0.0990	0.0981	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.913	20.0
BC10407	Potassium, Dissolved	mg/L	0.00152	0.367	10.0	11.0	11.1	9.97	8.50 to 11.5	99.9	70.0 to 130	0.905	20.0
BC10408	Potassium, Total	mg/L	0.0102	0.367	10.0	10.2	10.0	10.2	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC10407	Selenium, Dissolved	mg/L	-0.0000214	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Selenium, Total	mg/L	0.0000056	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC10407	Silicon, Dissolved	mg/L	-0.00110	0.0440	1.00	5.02	5.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Silicon, Total	mg/L	-0.000555	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC10407	Sodium, Dissolved	mg/L	-0.000155	0.0660	5.00	7.73	7.76	5.13	4.25 to 5.75	102	70.0 to 130	0.387	20.0
BC10408	Sodium, Total	mg/L	0.00196	0.0660	5.00	5.16	5.17	5.17	4.25 to 5.75	103	70.0 to 130	0.194	20.0
BC10408	Sulfate	mg/L	-0.0817	2.0	20.0	20.1	20.4	19.0	18.0 to 22.0	100	80.0 to 120	1.48	20.0
BC10407	Thallium, Dissolved	mg/L	0.0000086	0.000147	0.100	0.109	0.105	0.110	0.0850 to 0.115	109	70.0 to 130	3.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/31/22 15:22
Customer ID:
Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-3

Laboratory ID Number: BC10405

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC10408	Thallium, Total	mg/L	0.0000118	0.000147	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC10408	Total Organic Carbon	mg/L	0.160	1.00	10.0	10.0	10.2	25.1		100	80.0 to 120	1.98	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 15:22

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-3

Laboratory ID Number: BC10405

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC10407	Alkalinity, Total as CaCO3	mg/L					0.680	52.5	45.0 to 55.0			42.9	10.0
BC10408	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	2.12	0.073	2.01	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC10407	Solids, Dissolved	mg/L	0.0000	25.0			36.0	50.0	40.0 to 60.0			1.93	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3 Dup

Location Code: WMWBARPU
Collected: 5/31/22 15:22
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/6/22 09:22	6/8/22 10:02		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/6/22 09:22	6/8/22 10:02		1.015	1.97	mg/L	0.070035	0.406	
* Iron, Total	6/6/22 09:22	6/8/22 10:02		1.015	0.0242	mg/L	0.008120	0.0406	J
* Lithium, Total	6/6/22 09:22	6/8/22 10:02		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/6/22 09:22	6/8/22 10:02		1.015	2.04	mg/L	0.021315	0.406	
Silica, Total (calc.)	6/6/22 09:22	6/8/22 10:02		1	8.54	mg/L			
Silicon, Total	6/6/22 09:22	6/8/22 10:02		1.015	3.99	mg/L	0.02030	0.25375	
* Sodium, Total	6/6/22 09:22	6/8/22 10:02		1.015	3.11	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	6/6/22 09:06	6/8/22 11:20		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/6/22 09:06	6/8/22 11:20		1.015	1.94	mg/L	0.070035	0.406	
* Iron, Dissolved	6/6/22 09:06	6/8/22 11:20		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/6/22 09:06	6/8/22 11:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/6/22 09:06	6/8/22 11:20		1.015	2.04	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	6/6/22 09:06	6/8/22 11:20		1	8.52	mg/L			
Silicon, Dissolved	6/6/22 09:06	6/8/22 11:20		1.015	3.98	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/6/22 09:06	6/8/22 11:20		1.015	3.14	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/6/22 07:13	6/6/22 14:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/6/22 07:13	6/6/22 14:51		1.015	0.0429	mg/L	0.006090	0.01015	
* Arsenic, Total	6/6/22 07:13	6/6/22 14:51		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	6/6/22 07:13	6/6/22 14:51		1.015	0.101	mg/L	0.000508	0.001015	
* Beryllium, Total	6/6/22 07:13	6/6/22 14:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/6/22 07:13	6/6/22 14:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/6/22 07:13	6/6/22 14:51		1.015	0.00134	mg/L	0.000203	0.001015	
* Cobalt, Total	6/6/22 07:13	6/6/22 14:51		1.015	0.00152	mg/L	0.000068	0.000203	
* Lead, Total	6/6/22 07:13	6/6/22 14:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/6/22 07:13	6/6/22 14:51		1.015	0.0198	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/6/22 07:13	6/6/22 14:51		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/6/22 07:13	6/6/22 14:51		1.015	0.974	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3 Dup

Location Code: WMWBARPU
Collected: 5/31/22 15:22
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/6/22 07:13	6/6/22 14:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/6/22 07:13	6/6/22 14:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	0.0237	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	0.0993	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	0.00122	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	0.00158	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	0.0199	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	1.01	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/6/22 07:31	6/6/22 12:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/7/22 11:15	6/7/22 13:52		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	6/6/22 12:43	6/6/22 12:43		1	2.01	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/10/22 13:35	6/10/22 14:52		1	1.20	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	6/3/22 13:15	6/6/22 13:42		1	31.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	1.20	mg/L			
Carbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/8/22 02:28	6/8/22 02:28		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-3 Dup

Location Code: WMWBARPU

Collected: 5/31/22 15:22

Customer ID:

Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10406

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/6/22 13:01	6/6/22 13:01		1	3.41	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 13:32	6/8/22 13:32		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 16:15	6/7/22 16:15		1	7.18	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/31/22 15:19	5/31/22 15:19			49.57	uS/cm			FA
pH	5/31/22 15:19	5/31/22 15:19			3.54	SU			FA
Temperature	5/31/22 15:19	5/31/22 15:19			20.09	C			FA
Turbidity	5/31/22 15:19	5/31/22 15:19			3.1	NTU			FA
Sulfide	5/31/22 15:19	5/31/22 15:19			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 15:22

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-3 Dup

Laboratory ID Number: BC10406

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10407	Aluminum, Dissolved	mg/L	0.000977	0.010	0.100	0.124	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	3.17	20.0
BC10408	Aluminum, Total	mg/L	0.000555	0.010	0.100	0.110	0.106	0.106	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC10407	Antimony, Dissolved	mg/L	0.000304	0.00100	0.100	0.0937	0.0957	0.0923	0.0850 to 0.115	93.7	70.0 to 130	2.11	20.0
BC10408	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0896	0.0901	0.0945	0.0850 to 0.115	89.6	70.0 to 130	0.556	20.0
BC10407	Arsenic, Dissolved	mg/L	0.000034	0.000176	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC10408	Arsenic, Total	mg/L	0.0000173	0.000176	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10407	Barium, Dissolved	mg/L	0.0000071	0.00100	0.100	0.229	0.234	0.103	0.0850 to 0.115	100	70.0 to 130	2.16	20.0
BC10408	Barium, Total	mg/L	0.0000192	0.00100	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC10407	Beryllium, Dissolved	mg/L	0.0000130	0.000880	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Beryllium, Total	mg/L	0.0000106	0.000880	0.100	0.103	0.0970	0.0977	0.0850 to 0.115	103	70.0 to 130	6.00	20.0
BC10407	Boron, Dissolved	mg/L	0.000221	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Boron, Total	mg/L	0.000098	0.0650	1.00	0.990	0.990	1.01	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC10407	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0997	0.103	0.101	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BC10408	Cadmium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.0997	0.102	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BC10407	Calcium, Dissolved	mg/L	-0.00230	0.152	5.00	6.91	6.88	4.88	4.25 to 5.75	97.6	70.0 to 130	0.435	20.0
BC10408	Calcium, Total	mg/L	-0.00539	0.152	5.00	4.87	4.79	4.93	4.25 to 5.75	97.4	70.0 to 130	1.66	20.0
BC10408	Chloride	mg/L	-0.0327	1.00	10.0	10.6	10.6	9.58	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC10407	Chromium, Dissolved	mg/L	0.0000008	0.000440	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC10408	Chromium, Total	mg/L	0.0000337	0.000440	0.100	0.103	0.100	0.102	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC10407	Cobalt, Dissolved	mg/L	-0.0000006	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	0.939	20.0
BC10408	Cobalt, Total	mg/L	0.0000018	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC10408	Fluoride	mg/L	0.00175	0.125	2.50	2.53	2.56	2.54	2.25 to 2.75	101	80.0 to 120	1.18	20.0
BC10407	Iron, Dissolved	mg/L	-0.000261	0.0176	0.2	0.201	0.200	0.200	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 15:22

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-3 Dup

Laboratory ID Number: BC10406

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10408	Iron, Total	mg/L	0.000083	0.0176	0.2	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BC10407	Lead, Dissolved	mg/L	0.0000066	0.000147	0.100	0.108	0.104	0.109	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC10408	Lead, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC10407	Lithium, Dissolved	mg/L	0.000211	0.0154	0.200	0.201	0.202	0.201	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BC10408	Lithium, Total	mg/L	0.000209	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC10407	Magnesium, Dissolved	mg/L	-0.00997	0.0462	5.00	7.28	7.22	5.16	4.25 to 5.75	103	70.0 to 130	0.828	20.0
BC10408	Magnesium, Total	mg/L	-0.00569	0.0462	5.00	5.11	5.07	5.18	4.25 to 5.75	102	70.0 to 130	0.786	20.0
BC10407	Manganese, Dissolved	mg/L	0.0000037	0.0002	0.100	0.118	0.120	0.103	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BC10408	Manganese, Total	mg/L	0.0000112	0.0002	0.100	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC10408	Mercury, Total by CVAA	mg/L	0.000134	0.000500	0.004	0.00425	0.00421	0.00400	0.00340 to 0.00460	106	70.0 to 130	0.946	20.0
BC10407	Molybdenum, Dissolved	mg/L	0.0000017	0.0002	0.100	0.0978	0.100	0.0987	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BC10408	Molybdenum, Total	mg/L	-0.0000073	0.0002	0.100	0.0990	0.0981	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.913	20.0
BC10407	Potassium, Dissolved	mg/L	0.00152	0.367	10.0	11.0	11.1	9.97	8.50 to 11.5	99.9	70.0 to 130	0.905	20.0
BC10408	Potassium, Total	mg/L	0.0102	0.367	10.0	10.2	10.0	10.2	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC10407	Selenium, Dissolved	mg/L	-0.0000214	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Selenium, Total	mg/L	0.0000056	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC10407	Silicon, Dissolved	mg/L	-0.00110	0.0440	1.00	5.02	5.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Silicon, Total	mg/L	-0.000555	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC10407	Sodium, Dissolved	mg/L	-0.000155	0.0660	5.00	7.73	7.76	5.13	4.25 to 5.75	102	70.0 to 130	0.387	20.0
BC10408	Sodium, Total	mg/L	0.00196	0.0660	5.00	5.16	5.17	5.17	4.25 to 5.75	103	70.0 to 130	0.194	20.0
BC10408	Sulfate	mg/L	-0.0817	2.0	20.0	20.1	20.4	19.0	18.0 to 22.0	100	80.0 to 120	1.48	20.0
BC10407	Thallium, Dissolved	mg/L	0.0000086	0.000147	0.100	0.109	0.105	0.110	0.0850 to 0.115	109	70.0 to 130	3.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/31/22 15:22
Customer ID:
Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-3 Dup

Laboratory ID Number: BC10406

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC10408	Thallium, Total	mg/L	0.0000118	0.000147	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC10408	Total Organic Carbon	mg/L	0.160	1.00	10.0	10.0	10.2	25.1		100	80.0 to 120	1.98	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 15:22

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-3 Dup

Laboratory ID Number: BC10406

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10407	Alkalinity, Total as CaCO3	mg/L					0.680	52.5	45.0 to 55.0			42.9	10.0
BC10408	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	2.12	0.073	2.01	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC10407	Solids, Dissolved	mg/L	0.0000	25.0			36.0	50.0	40.0 to 60.0			1.93	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-4

Location Code: WMWBARPU
Collected: 5/31/22 16:24
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/6/22 09:22	6/8/22 10:05		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/6/22 09:22	6/8/22 10:05		1.015	2.02	mg/L	0.070035	0.406	
* Iron, Total	6/6/22 09:22	6/8/22 10:05		1.015	0.222	mg/L	0.008120	0.0406	
* Lithium, Total	6/6/22 09:22	6/8/22 10:05		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/6/22 09:22	6/8/22 10:05		1.015	2.20	mg/L	0.021315	0.406	
Silica, Total (calc.)	6/6/22 09:22	6/8/22 10:05		1	8.82	mg/L			
Silicon, Total	6/6/22 09:22	6/8/22 10:05		1.015	4.12	mg/L	0.02030	0.25375	
* Sodium, Total	6/6/22 09:22	6/8/22 10:05		1.015	2.69	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	6/6/22 09:06	6/8/22 11:23		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	6/6/22 09:06	6/8/22 11:23		1.015	2.03	mg/L	0.070035	0.406	
* Iron, Dissolved	6/6/22 09:06	6/8/22 11:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	6/6/22 09:06	6/8/22 11:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	6/6/22 09:06	6/8/22 11:23		1.015	2.14	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	6/6/22 09:06	6/8/22 11:23		1	8.56	mg/L			
Silicon, Dissolved	6/6/22 09:06	6/8/22 11:23		1.015	4.00	mg/L	0.02030	0.25375	
* Sodium, Dissolved	6/6/22 09:06	6/8/22 11:23		1.015	2.65	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/6/22 07:13	6/6/22 14:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/6/22 07:13	6/6/22 14:55		1.015	0.233	mg/L	0.006090	0.01015	
* Arsenic, Total	6/6/22 07:13	6/6/22 14:55		1.015	0.000203	mg/L	0.000081	0.000203	
* Barium, Total	6/6/22 07:13	6/6/22 14:55		1.015	0.129	mg/L	0.000508	0.001015	
* Beryllium, Total	6/6/22 07:13	6/6/22 14:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/6/22 07:13	6/6/22 14:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/6/22 07:13	6/6/22 14:55		1.015	0.00156	mg/L	0.000203	0.001015	
* Cobalt, Total	6/6/22 07:13	6/6/22 14:55		1.015	0.00150	mg/L	0.000068	0.000203	
* Lead, Total	6/6/22 07:13	6/6/22 14:55		1.015	0.000173	mg/L	0.000068	0.000203	J
* Manganese, Total	6/6/22 07:13	6/6/22 14:55		1.015	0.0173	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/6/22 07:13	6/6/22 14:55		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/6/22 07:13	6/6/22 14:55		1.015	1.05	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-4

Location Code: WMWBARPU
Collected: 5/31/22 16:24
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/6/22 07:13	6/6/22 14:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/6/22 07:13	6/6/22 14:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	0.0212	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	0.129	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	0.00104	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	0.00138	mg/L	0.000068	0.000203	
* Lead, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	0.0165	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	1.01	mg/L	0.169505	0.5075	
* Selenium, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	6/6/22 07:31	6/6/22 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/7/22 11:15	6/7/22 13:54		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	6/6/22 12:44	6/6/22 12:44		1	2.55	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/10/22 13:35	6/10/22 14:52		1	0.44	mg/L		0.1	PA
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	6/3/22 13:15	6/6/22 13:42		1	36.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	Not Detected	mg/L		1	
Carbonate Alkalinity, (calc.)	6/10/22 13:35	6/10/22 14:52		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/8/22 02:51	6/8/22 02:51		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient - MW-4

Location Code: WMWBARPU

Collected: 5/31/22 16:24

Customer ID:

Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10407

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/6/22 13:02	6/6/22 13:02		1	3.31	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 13:33	6/8/22 13:33		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 16:16	6/7/22 16:16		1	7.94	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/31/22 16:21	5/31/22 16:21			52.45	uS/cm			FA
pH	5/31/22 16:21	5/31/22 16:21			3.97	SU			FA
Temperature	5/31/22 16:21	5/31/22 16:21			22.67	C			FA
Turbidity	5/31/22 16:21	5/31/22 16:21			8.23	NTU			FA
Sulfide	5/31/22 16:21	5/31/22 16:21			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU
Sample Date: 5/31/22 16:24
Customer ID:
Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-4

Laboratory ID Number: BC10407

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10407	Aluminum, Dissolved	mg/L	0.000977	0.010	0.100	0.124	0.128	0.104	0.0850 to 0.115	103	70.0 to 130	3.17	20.0
BC10408	Aluminum, Total	mg/L	0.000555	0.010	0.100	0.110	0.106	0.106	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC10407	Antimony, Dissolved	mg/L	0.000304	0.00100	0.100	0.0937	0.0957	0.0923	0.0850 to 0.115	93.7	70.0 to 130	2.11	20.0
BC10408	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0896	0.0901	0.0945	0.0850 to 0.115	89.6	70.0 to 130	0.556	20.0
BC10407	Arsenic, Dissolved	mg/L	0.000034	0.000176	0.100	0.100	0.102	0.104	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC10408	Arsenic, Total	mg/L	0.0000173	0.000176	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10407	Barium, Dissolved	mg/L	0.0000071	0.00100	0.100	0.229	0.234	0.103	0.0850 to 0.115	100	70.0 to 130	2.16	20.0
BC10408	Barium, Total	mg/L	0.0000192	0.00100	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC10407	Beryllium, Dissolved	mg/L	0.0000130	0.000880	0.100	0.100	0.101	0.104	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Beryllium, Total	mg/L	0.0000106	0.000880	0.100	0.103	0.0970	0.0977	0.0850 to 0.115	103	70.0 to 130	6.00	20.0
BC10407	Boron, Dissolved	mg/L	0.000221	0.0650	1.00	1.02	1.02	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Boron, Total	mg/L	0.000098	0.0650	1.00	0.990	0.990	1.01	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC10407	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0997	0.103	0.101	0.0850 to 0.115	99.7	70.0 to 130	3.26	20.0
BC10408	Cadmium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.0997	0.102	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BC10407	Calcium, Dissolved	mg/L	-0.00230	0.152	5.00	6.91	6.88	4.88	4.25 to 5.75	97.6	70.0 to 130	0.435	20.0
BC10408	Calcium, Total	mg/L	-0.00539	0.152	5.00	4.87	4.79	4.93	4.25 to 5.75	97.4	70.0 to 130	1.66	20.0
BC10408	Chloride	mg/L	-0.0327	1.00	10.0	10.6	10.6	9.58	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC10407	Chromium, Dissolved	mg/L	0.0000008	0.000440	0.100	0.102	0.104	0.102	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC10408	Chromium, Total	mg/L	0.0000337	0.000440	0.100	0.103	0.100	0.102	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC10407	Cobalt, Dissolved	mg/L	-0.0000006	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	105	70.0 to 130	0.939	20.0
BC10408	Cobalt, Total	mg/L	0.0000018	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC10408	Fluoride	mg/L	0.00175	0.125	2.50	2.53	2.56	2.54	2.25 to 2.75	101	80.0 to 120	1.18	20.0
BC10407	Iron, Dissolved	mg/L	-0.000261	0.0176	0.2	0.201	0.200	0.200	0.170 to 0.230	100	70.0 to 130	0.499	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 16:24

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-4

Laboratory ID Number: BC10407

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10408	Iron, Total	mg/L	0.000083	0.0176	0.2	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BC10407	Lead, Dissolved	mg/L	0.0000066	0.000147	0.100	0.108	0.104	0.109	0.0850 to 0.115	108	70.0 to 130	3.77	20.0
BC10408	Lead, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC10407	Lithium, Dissolved	mg/L	0.000211	0.0154	0.200	0.201	0.202	0.201	0.170 to 0.230	100	70.0 to 130	0.496	20.0
BC10408	Lithium, Total	mg/L	0.000209	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC10407	Magnesium, Dissolved	mg/L	-0.00997	0.0462	5.00	7.28	7.22	5.16	4.25 to 5.75	103	70.0 to 130	0.828	20.0
BC10408	Magnesium, Total	mg/L	-0.00569	0.0462	5.00	5.11	5.07	5.18	4.25 to 5.75	102	70.0 to 130	0.786	20.0
BC10407	Manganese, Dissolved	mg/L	0.0000037	0.0002	0.100	0.118	0.120	0.103	0.0850 to 0.115	102	70.0 to 130	1.68	20.0
BC10408	Manganese, Total	mg/L	0.0000112	0.0002	0.100	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC10408	Mercury, Total by CVAA	mg/L	0.000134	0.000500	0.004	0.00425	0.00421	0.00400	0.00340 to 0.00460	106	70.0 to 130	0.946	20.0
BC10407	Molybdenum, Dissolved	mg/L	0.0000017	0.0002	0.100	0.0978	0.100	0.0987	0.0850 to 0.115	97.8	70.0 to 130	2.22	20.0
BC10408	Molybdenum, Total	mg/L	-0.0000073	0.0002	0.100	0.0990	0.0981	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.913	20.0
BC10407	Potassium, Dissolved	mg/L	0.00152	0.367	10.0	11.0	11.1	9.97	8.50 to 11.5	99.9	70.0 to 130	0.905	20.0
BC10408	Potassium, Total	mg/L	0.0102	0.367	10.0	10.2	10.0	10.2	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC10407	Selenium, Dissolved	mg/L	-0.0000214	0.00100	0.100	0.100	0.101	0.101	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC10408	Selenium, Total	mg/L	0.0000056	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC10407	Silicon, Dissolved	mg/L	-0.00110	0.0440	1.00	5.02	5.02	1.02	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10408	Silicon, Total	mg/L	-0.000555	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC10407	Sodium, Dissolved	mg/L	-0.000155	0.0660	5.00	7.73	7.76	5.13	4.25 to 5.75	102	70.0 to 130	0.387	20.0
BC10408	Sodium, Total	mg/L	0.00196	0.0660	5.00	5.16	5.17	5.17	4.25 to 5.75	103	70.0 to 130	0.194	20.0
BC10408	Sulfate	mg/L	-0.0817	2.0	20.0	20.1	20.4	19.0	18.0 to 22.0	100	80.0 to 120	1.48	20.0
BC10407	Thallium, Dissolved	mg/L	0.0000086	0.000147	0.100	0.109	0.105	0.110	0.0850 to 0.115	109	70.0 to 130	3.74	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 16:24

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-4

Laboratory ID Number: BC10407

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC10408	Thallium, Total	mg/L	0.0000118	0.000147	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0
BC10408	Total Organic Carbon	mg/L	0.160	1.00	10.0	10.0	10.2	25.1		100	80.0 to 120	1.98	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARPU

Sample Date: 5/31/22 16:24

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient - MW-4

Laboratory ID Number: BC10407

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10407	Alkalinity, Total as CaCO3	mg/L					0.680	52.5	45.0 to 55.0			42.9	10.0
BC10408	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	2.12	0.073	2.01	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC10407	Solids, Dissolved	mg/L	0.0000	25.0			36.0	50.0	40.0 to 60.0			1.93	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Pooled Upgradient Equipment Blank-1

Location Code: WMWBARPUEB
Collected: 5/31/22 16:45
Customer ID:
Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	6/6/22 09:22	6/8/22 10:07		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	6/6/22 09:22	6/8/22 10:07		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	6/6/22 09:22	6/8/22 10:07		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	6/6/22 09:22	6/8/22 10:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	6/6/22 09:22	6/8/22 10:07		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	6/6/22 09:22	6/8/22 10:07		1	Not Detected	mg/L			
Silicon, Total	6/6/22 09:22	6/8/22 10:07		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	6/6/22 09:22	6/8/22 10:07		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/6/22 07:13	6/6/22 14:58		1.015	0.000269	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000152	0.000203	U
* Molybdenum, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/6/22 07:13	6/6/22 14:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	6/7/22 11:15	6/7/22 13:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: CES						
* Nitrogen, Nitrate/Nitrite	6/6/22 12:45	6/6/22 12:45		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	6/3/22 13:15	6/6/22 13:42		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Pooled Upgradient Equipment Blank-1

Location Code: WMWBARPUEB

Collected: 5/31/22 16:45

Customer ID:

Submittal Date: 6/2/22 08:21

Laboratory ID Number: BC10408

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/8/22 03:13	6/8/22 03:13		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: JCC							
* Chloride	6/6/22 13:03	6/6/22 13:03		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 13:34	6/8/22 13:34		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 16:17	6/7/22 16:17		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARPUEB

Sample Date: 5/31/22 16:45

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient Equipment Blank-1

Laboratory ID Number: BC10408

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10408	Aluminum, Total	mg/L	0.000555	0.010	0.100	0.110	0.106	0.106	0.0850 to 0.115	110	70.0 to 130	3.70	20.0
BC10408	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0896	0.0901	0.0945	0.0850 to 0.115	89.6	70.0 to 130	0.556	20.0
BC10408	Arsenic, Total	mg/L	0.0000173	0.000176	0.100	0.102	0.101	0.102	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10408	Barium, Total	mg/L	0.0000192	0.00100	0.100	0.0994	0.101	0.103	0.0850 to 0.115	99.4	70.0 to 130	1.60	20.0
BC10408	Beryllium, Total	mg/L	0.0000106	0.000880	0.100	0.103	0.0970	0.0977	0.0850 to 0.115	103	70.0 to 130	6.00	20.0
BC10408	Boron, Total	mg/L	0.000098	0.0650	1.00	0.990	0.990	1.01	0.850 to 1.15	99.0	70.0 to 130	0.00	20.0
BC10408	Cadmium, Total	mg/L	0.0000036	0.000147	0.100	0.102	0.0997	0.102	0.0850 to 0.115	102	70.0 to 130	2.28	20.0
BC10408	Calcium, Total	mg/L	-0.00539	0.152	5.00	4.87	4.79	4.93	4.25 to 5.75	97.4	70.0 to 130	1.66	20.0
BC10408	Chloride	mg/L	-0.0327	1.00	10.0	10.6	10.6	9.58	9.00 to 11.0	106	80.0 to 120	0.00	20.0
BC10408	Chromium, Total	mg/L	0.0000337	0.000440	0.100	0.103	0.100	0.102	0.0850 to 0.115	103	70.0 to 130	2.96	20.0
BC10408	Cobalt, Total	mg/L	0.0000018	0.000147	0.100	0.106	0.106	0.107	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC10408	Fluoride	mg/L	0.00175	0.125	2.50	2.53	2.56	2.54	2.25 to 2.75	101	80.0 to 120	1.18	20.0
BC10408	Iron, Total	mg/L	0.000083	0.0176	0.2	0.199	0.199	0.200	0.170 to 0.230	99.5	70.0 to 130	0.00	20.0
BC10408	Lead, Total	mg/L	0.0000100	0.000147	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0
BC10408	Lithium, Total	mg/L	0.000209	0.0154	0.200	0.203	0.203	0.204	0.170 to 0.230	102	70.0 to 130	0.00	20.0
BC10408	Magnesium, Total	mg/L	-0.00569	0.0462	5.00	5.11	5.07	5.18	4.25 to 5.75	102	70.0 to 130	0.786	20.0
BC10408	Manganese, Total	mg/L	0.0000112	0.0002	0.100	0.104	0.102	0.104	0.0850 to 0.115	104	70.0 to 130	1.94	20.0
BC10408	Mercury, Total by CVAA	mg/L	0.000134	0.000500	0.004	0.00425	0.00421	0.00400	0.00340 to 0.00460	106	70.0 to 130	0.946	20.0
BC10408	Molybdenum, Total	mg/L	-0.0000073	0.0002	0.100	0.0990	0.0981	0.101	0.0850 to 0.115	99.0	70.0 to 130	0.913	20.0
BC10408	Potassium, Total	mg/L	0.0102	0.367	10.0	10.2	10.0	10.2	8.50 to 11.5	102	70.0 to 130	1.98	20.0
BC10408	Selenium, Total	mg/L	0.0000056	0.00100	0.100	0.103	0.101	0.104	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC10408	Silicon, Total	mg/L	-0.000555	0.0440	1.00	1.01	1.01	1.02	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC10408	Sodium, Total	mg/L	0.00196	0.0660	5.00	5.16	5.17	5.17	4.25 to 5.75	103	70.0 to 130	0.194	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARPUEB

Sample Date: 5/31/22 16:45

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient Equipment Blank-1

Laboratory ID Number: BC10408

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC10408	Sulfate	mg/L	-0.0817	2.0	20.0	20.1	20.4	19.0	18.0 to 22.0	100	80.0 to 120	1.48	20.0		
BC10408	Thallium, Total	mg/L	0.0000118	0.000147	0.100	0.106	0.105	0.108	0.0850 to 0.115	106	70.0 to 130	0.948	20.0		
BC10408	Total Organic Carbon	mg/L	0.160	1.00	10.0	10.0	10.2	25.1		100	80.0 to 120	1.98	20.0		

Comments:

Batch QC Summary

Customer Account: WMWBARPUEB

Sample Date: 5/31/22 16:45

Customer ID:

Delivery Date: 6/2/22 08:21

Description: Barry Pooled Upgradient Equipment Blank-1

Laboratory ID Number: BC10408

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10408	Nitrogen, Nitrate/Nitrite	mg/L as N	0.01	0.200	2.00	2.12	0.073	2.01	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC10407	Solids, Dissolved	mg/L	0.0000	25.0			36.0	50.0	40.0 to 60.0			1.93	10.0

Comments:

Definitions

Project Number: WMWBARPU_1372

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
PA	Precision is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Barry Pooled Upgradient

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: Samples relinquished to GSC Building 8 shipping lab on 06/01/22 @ 1554.
N/N, TOC pH < 2 SU. BC 06/02/22

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	05/31/2022	13:24	7	Groundwater		BC10402
MW-2	05/31/2022	14:28	7	Groundwater		BC10403
FB-1	05/31/2022	14:45	5	Field Blank		BC10404
MW-3	05/31/2022	15:22	7	Groundwater		BC10405
MW-3 dup	05/31/2022	15:22	7	Sample Duplicate		BC10406
MW-4	05/31/2022	16:24	7	Groundwater		BC10407
EB-1	05/31/2022	16:45	5	Equipment Blank		BC10408

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	Brooke Caton <small>Digitally signed by Brooke Caton Date: 2022.06.02 08:18:41 -05'00'</small>	06/02/2022 08:18

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1372	
	Cooler Temp	1.9 °C
	Thermometer ID	7044-38281-2-1
	pH Strip ID	10275-59506-10-2



Chain of Custody
Groundwater
APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Barry Pooled Upgradient

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-1. Samples relinquished to GSC Building 8 shipping lab on 06/01/22 @ 1555.

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1	05/31/2022	13:24	3	Groundwater		BC10409
MW-2	05/31/2022	14:28	1	Groundwater		BC10410
FB-1	05/31/2022	14:45	1	Field Blank		BC10411
MW-3	05/31/2022	15:22	1	Groundwater		BC10412
MW-3 dup	05/31/2022	15:22	1	Sample Duplicate		BC10413
MW-4	05/31/2022	16:24	1	Groundwater		BC10414
EB-1	05/31/2022	16:45	1	Equipment Blank		BC10415

Relinquished By 	Received By Brooke Caton <small>Digitally signed by Brooke Caton Date: 2022.06.02 08:19:17 -05'00'</small>	Date/Time 06/02/2022 08:19

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1372	
	Cooler Temp	N/A
	Thermometer ID	N/A
	pH Strip ID	10275-59506-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL

July 18, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWBARPU_1372
Pace Project No.: 30502759

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on June 08, 2022. 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,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: WMWBARPU_1372
Pace Project No.: 30502759

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30497264001	BC10409 MW-1	Water	05/31/22 13:24	06/08/22 10:55
30497264002	BC10409 MW-1 MS	Water	05/31/22 13:24	06/08/22 10:55
30497264003	BC10409 MW-1 MSD	Water	05/31/22 13:24	06/08/22 10:55
30497264004	BC10410 MW-2	Water	05/31/22 14:28	06/08/22 10:55
30497264005	BC10411 FB-1	Water	05/31/22 14:45	06/08/22 10:55
30497264006	BC10412 MW-3	Water	05/31/22 15:22	06/08/22 10:55
30497264007	BC10413 MW-3 Dup	Water	05/31/22 15:22	06/08/22 10:55
30497264008	BC10414 MW-4	Water	05/31/22 16:24	06/08/22 10:55
30497264009	BC10415 EB-1	Water	05/31/22 16:45	06/08/22 10:55

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARPU_1372
Pace Project No.: 30502759

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30497264001	BC10409 MW-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30497264002	BC10409 MW-1 MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30497264003	BC10409 MW-1 MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30497264004	BC10410 MW-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30497264005	BC10411 FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30497264006	BC10412 MW-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30497264007	BC10413 MW-3 Dup	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30497264008	BC10414 MW-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30497264009	BC10415 EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARPU_1372
Pace Project No.: 30502759

Method: EPA 9315
Description: 9315 Total Radium
Client: Alabama Power
Date: July 18, 2022

General Information:

9 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARPU_1372

Pace Project No.: 30502759

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: July 18, 2022

General Information:

9 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARPU_1372
Pace Project No.: 30502759

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Alabama Power
Date: July 18, 2022

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10409 MW-1 **Lab ID: 30497264001** Collected: 05/31/22 13:24 Received: 06/08/22 10:55 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 9315	0.489 ± 0.227 (0.256) C:87% T:NA	pCi/L	07/11/22 09:59	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.849 ± 0.368 (0.583) C:70% T:95%	pCi/L	07/07/22 11:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.34 ± 0.595 (0.839)	pCi/L	07/11/22 22:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10409 MW-1 MS **Lab ID: 30497264002** Collected: 05/31/22 13:24 Received: 06/08/22 10:55 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 9315	100.20 %REC ± NA (NA) C:NA T:NA	pCi/L	07/11/22 10:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	100.48 %REC ± NA (NA) C:NA T:NA	pCi/L	07/07/22 11:21	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10409 MW-1 MSD **Lab ID: 30497264003** Collected: 05/31/22 13:24 Received: 06/08/22 10:55 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 9315	107.43 %REC 6.96 RPD ± NA (NA) C:NA T:NA	pCi/L	07/11/22 10:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	96.00 %REC 4.56 RPD ± NA (NA) C:NA T:NA	pCi/L	07/07/22 11:21	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10410 MW-2 **Lab ID: 30497264004** Collected: 05/31/22 14:28 Received: 06/08/22 10:55 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 9315	0.599 ± 0.245 (0.238) C:88% T:NA	pCi/L	07/11/22 10:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.783 ± 0.376 (0.633) C:71% T:91%	pCi/L	07/07/22 11:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.38 ± 0.621 (0.871)	pCi/L	07/11/22 22:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10411 FB-1 **Lab ID: 30497264005** Collected: 05/31/22 14:45 Received: 06/08/22 10:55 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 9315	0.205U ± 0.156 (0.242) C:91% T:NA	pCi/L	07/11/22 10:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.418U ± 0.295 (0.564) C:74% T:96%	pCi/L	07/07/22 11:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.623U ± 0.451 (0.806)	pCi/L	07/11/22 22:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10412 MW-3 **Lab ID: 30497264006** Collected: 05/31/22 15:22 Received: 06/08/22 10:55 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 9315	0.393 ± 0.203 (0.247) C:93% T:NA	pCi/L	07/11/22 10:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.28 ± 0.477 (0.700) C:71% T:86%	pCi/L	07/07/22 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.67 ± 0.680 (0.947)	pCi/L	07/11/22 22:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10413 MW-3 Dup **Lab ID: 30497264007** Collected: 05/31/22 15:22 Received: 06/08/22 10:55 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 9315	0.585 ± 0.243 (0.241) C:91% T:NA	pCi/L	07/11/22 10:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.768 ± 0.378 (0.645) C:70% T:92%	pCi/L	07/07/22 11:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.35 ± 0.621 (0.886)	pCi/L	07/11/22 22:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10414 MW-4 **Lab ID: 30497264008** Collected: 05/31/22 16:24 Received: 06/08/22 10:55 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 9315	0.469 ± 0.216 (0.222) C:91% T:NA	pCi/L	07/11/22 10:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.996 ± 0.362 (0.479) C:72% T:94%	pCi/L	07/07/22 11:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.47 ± 0.578 (0.701)	pCi/L	07/11/22 22:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

Sample: BC10415 EB-1 **Lab ID: 30497264009** Collected: 05/31/22 16:45 Received: 06/08/22 10:55 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 9315	0.107U ± 0.131 (0.264) C:93% T:NA	pCi/L	07/11/22 10:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.447U ± 0.321 (0.618) C:69% T:99%	pCi/L	07/07/22 11:21	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.554U ± 0.452 (0.882)	pCi/L	07/11/22 22:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

QC Batch: 511756

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30497264001, 30497264002, 30497264003, 30497264004, 30497264005, 30497264006, 30497264007, 30497264008, 30497264009

METHOD BLANK: 2480257

Matrix: Water

Associated Lab Samples: 30497264001, 30497264002, 30497264003, 30497264004, 30497264005, 30497264006, 30497264007, 30497264008, 30497264009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.215 ± 0.115 (0.148) C:93% T:NA	pCi/L	07/11/22 09:59	

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARPU_1372

Pace Project No.: 30502759

QC Batch:	511755	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30497264001, 30497264002, 30497264003, 30497264004, 30497264005, 30497264006, 30497264007, 30497264008, 30497264009

METHOD BLANK:	2480254	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 30497264001, 30497264002, 30497264003, 30497264004, 30497264005, 30497264006, 30497264007, 30497264008, 30497264009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.729 ± 0.340 (0.552) C:70% T:96%	pCi/L	07/07/22 11:25	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: WMWBARPU_1372

Pace Project No.: 30502759

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARPU_1372
Pace Project No.: 30502759

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30497264001	BC10409 MW-1	EPA 9315	511756		
30497264002	BC10409 MW-1 MS	EPA 9315	511756		
30497264003	BC10409 MW-1 MSD	EPA 9315	511756		
30497264004	BC10410 MW-2	EPA 9315	511756		
30497264005	BC10411 FB-1	EPA 9315	511756		
30497264006	BC10412 MW-3	EPA 9315	511756		
30497264007	BC10413 MW-3 Dup	EPA 9315	511756		
30497264008	BC10414 MW-4	EPA 9315	511756		
30497264009	BC10415 EB-1	EPA 9315	511756		
30497264001	BC10409 MW-1	EPA 9320	511755		
30497264002	BC10409 MW-1 MS	EPA 9320	511755		
30497264003	BC10409 MW-1 MSD	EPA 9320	511755		
30497264004	BC10410 MW-2	EPA 9320	511755		
30497264005	BC10411 FB-1	EPA 9320	511755		
30497264006	BC10412 MW-3	EPA 9320	511755		
30497264007	BC10413 MW-3 Dup	EPA 9320	511755		
30497264008	BC10414 MW-4	EPA 9320	511755		
30497264009	BC10415 EB-1	EPA 9320	511755		
30497264001	BC10409 MW-1	Total Radium Calculation	517875		
30497264004	BC10410 MW-2	Total Radium Calculation	517875		
30497264005	BC10411 FB-1	Total Radium Calculation	517875		
30497264006	BC10412 MW-3	Total Radium Calculation	517875		
30497264007	BC10413 MW-3 Dup	Total Radium Calculation	517875		
30497264008	BC10414 MW-4	Total Radium Calculation	517875		
30497264009	BC10415 EB-1	Total Radium Calculation	517875		

REPORT OF LABORATORY ANALYSIS

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



30497264

Section B
Required Project Information:

Company: Alabama Power Company
 Address: 744 Highway 87 GSC Bldg #8
 Calera, AL 35040
 Email To: tbwill@southernco.com | Fax
 Phone: 205-664-6101
 Requested Due Date: 28 days

Report To: Brooke Caton
 Copy To: Renee Jernigan & Blaine Denton
 Attention: Brooke Caton
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 PACE Quote: CCR
 Pace Project Manager: Skivler Richmond
 Pace Profile #: 16788

SAMPLE ID

One Character per box.
(A-Z, 0-9 /, -)
Sample ids must be unique

ITEM #	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	RECEIVED ON	TEMP IN C
1	BC10409	MW-1	APCO-BY-UP-MW-1	APCO_Barry_Pooled_Upgradient	x	GW	GW	G	5/31/2022 13:24	<i>[Signature]</i>	6/3/2022	7:46	Brooke Caton/ APC GTL				
2	BC10410	MW-2	APCO-BY-UP-MW-2	APCO_Barry_Pooled_Upgradient		GW	GW	G	5/31/2022 14:28								
3	BC10411	FB-1	APCO-BY-UP-FB-01	APCO_Barry_Pooled_Upgradient		GW	GW	G	5/31/2022 14:45								
4	BC10412	MW-3	APCO-BY-UP-MW-3	APCO_Barry_Pooled_Upgradient		GW	GW	G	5/31/2022 15:22								
5	BC10413	MW-3 Dup	APCO-BY-UP-MW-3	APCO_Barry_Pooled_Upgradient	x	GW	GW	G	5/31/2022 15:22								
6	BC10414	MW-4	APCO-BY-UP-MW-4	APCO_Barry_Pooled_Upgradient		GW	GW	G	5/31/2022 16:24								
7	BC10415	EB-1	APCO-BY-UP-EB-01	APCO_Barry_Pooled_Upgradient		GW	GW	G	5/31/2022 16:45								

Requested Analysis Filtered (Y/N)	Preservatives	# OF CONTAINERS	Unpreserved	H2SO4	HN03	Analyses Test	EPA 9315	EPA 9320	Total Radium Sum	Residual Chrome (Y/N)
		3		X	X		X	X		001,002,003
		1		X	X		X	X		004
		1		X	X		X	X		005
		1		X	X		X	X		006
		1		X	X		X	X		007
		1		X	X		X	X		008
		1		X	X		X	X		009

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
		Brooke Caton/ APC GTL		6/3/2022		7:46		<i>[Signature]</i>		6/3/22		10:55			

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 Dallas Gentry
 DATE Signed:

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: JC2
Date: 6/19/2022
Worklist: 67288
Matrix: DW

Method Blank Assessment	
MB Sample ID	2480257
MB concentration:	0.215
MB Counting Uncertainty:	0.111
MB MDC:	0.148
MB Numerical Performance Indicator:	3.80
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:	7/11/2022	LCS67288	7/11/2022
Spike I.D.:	19-033	LCS67288	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.026		24.026
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.505		0.506
Target Conc. (pCi/L, g, F):	4.756		4.747
Uncertainty (Calculated):	0.057		0.057
Result (pCi/L, g, F):	4.603		4.462
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.465		0.446
Numerical Performance Indicator:	-0.64		-1.25
Percent Recovery:	96.77%		93.98%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS67288
Duplicate Sample I.D.:	LCS67288
Sample Result (pCi/L, g, F):	4.603
Sample Result Counting Uncertainty (pCi/L, g, F):	0.465
Sample Duplicate Result (pCi/L, g, F):	4.462
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.446
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.429
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.93%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/31/2022	30497264001	
Sample I.D.:	30497264002	30497264003	
Sample MS I.D.:	19-033		
Sample MSD I.D.:	24.027		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.308		
MS Aliquot (L, g, F):	15.619		
MS Target Conc. (pCi/L, g, F):	0.275		
MSD Aliquot (L, g, F):	17.494		
MSD Target Conc. (pCi/L, g, F):	0.187		
MS Spike Uncertainty (calculated):	0.210		
MSD Spike Uncertainty (calculated):	0.489		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.216		
Sample Matrix Spike Result:	16.140		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.094		
Sample Matrix Spike Duplicate Result:	19.283		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.262		
MS Numerical Performance Indicator:	0.054		
MSD Numerical Performance Indicator:	1.964		
MS Percent Recovery:	100.20%		
MSD Percent Recovery:	107.43%		
MS Status vs Numerical Indicator:	N/A		
MSD Status vs Numerical Indicator:	N/A		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	Pass		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30497264001
Sample MS I.D.:	30497264002
Sample MSD I.D.:	16.140
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.094
Sample Matrix Spike Duplicate Result:	19.283
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.262
Duplicate Numerical Performance Indicator:	-3.687
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	6.96%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 6/17/2022
Worklist: 67287
Matrix: WI

Method Blank Assessment	
MB Sample ID	2480254
MB concentration:	0.729
M/B 2 Sigma CSU:	0.340
MB MDC:	0.552
MB Numerical Performance Indicator:	4.21
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS67287	N LCS67287
Count Date:	7/7/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.124	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.809	
Target Conc. (pCi/L, g, F):	4.344	
Uncertainty (Calculated):	0.213	
Result (pCi/L, g, F):	3.828	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.860	
Numerical Performance Indicator:	-1.14	
Percent Recovery:	88.11%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	See Below ##
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Handwritten signature

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/31/2022	
Sample I.D.:	30497264001	
Sample MS I.D.:	30497264002	
Sample MSD I.D.:	30497264003	
Spike I.D.:	22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	35.554	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.806	
MS Target Conc. (pCi/L, g, F):	8.818	
MSD Aliquot (L, g, F):	0.810	
MSD Target Conc. (pCi/L, g, F):	8.784	
MS Spike Uncertainty (calculated):	0.432	
MSD Spike Uncertainty (calculated):	0.430	
Sample Result:	0.849	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.368	
Sample Matrix Spike Result:	9.709	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.924	
Sample Matrix Spike Duplicate Result:	9.282	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.838	
MS Numerical Performance Indicator:	0.041	
MSD Numerical Performance Indicator:	-0.358	
MS Percent Recovery:	100.48%	
MSD Percent Recovery:	96.00%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:	30497264001	
Sample MS I.D.:	30497264002	
Sample MSD I.D.:	30497264003	
Sample Matrix Spike Result:	9.709	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.924	
Sample Matrix Spike Duplicate Result:	9.282	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.838	
Duplicate Numerical Performance Indicator:	0.315	
Duplicate Status vs Numerical Indicator:	Pass	
MS/MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWBARAP_1367

Project/Site : Barry Ash Pond
Bucks, AL 36512

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Brooke Caton
tbwill@southernco.com
(205) 664-6101

June 15, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between May 25, 2022 and May 26, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2022

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2022.06.16
10:52:56 -05'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T. Durant Maske, gn=T. Durant Maske, o=US
United States, +u.S. United States
e=tdmaske@southernco.com
Reason: I am approving this document
Location:
Date: 2022-06-16 11:07:05:00



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	728050	WMWBARAP_1367
BC09975	728050	WMWBARAP_1367
BC09976	728050	WMWBARAP_1367
BC09977	728050	WMWBARAP_1367
BC09978	728050	WMWBARAP_1367
BC09979	728050	WMWBARAP_1367
BC09980	728050	WMWBARAP_1367
BC09981	728050	WMWBARAP_1367
BC09982	728050	WMWBARAP_1367
BC09983	728050	WMWBARAP_1367
BC09984	728051	WMWBARAP_1367
BC09985	728051	WMWBARAP_1367
BC09986	728051	WMWBARAP_1367
BC09987	728051	WMWBARAP_1367
BC09988	728051	WMWBARAP_1367
BC09989	728051	WMWBARAP_1367
BC09990	728051	WMWBARAP_1367
BC09991	728051	WMWBARAP_1367
BC09992	728051	WMWBARAP_1367
BC09993	728051	WMWBARAP_1367
BC09994	728052	WMWBARAP_1367
BC09995	728052	WMWBARAP_1367
BC09996	728052	WMWBARAP_1367
BC09997	728052	WMWBARAP_1367
BC09998	728052	WMWBARAP_1367
BC09999	728052	WMWBARAP_1367
BC10000	728052	WMWBARAP_1367
BC10001	728052	WMWBARAP_1367
BC10111	728052	WMWBARAP_1367
BC10112	728052	WMWBARAP_1367
BC10113	728053	WMWBARAP_1367

BC10114	728053	WMWBARAP_1367
BC10115	728053	WMWBARAP_1367
BC10116	728053	WMWBARAP_1367
BC10117	728053	WMWBARAP_1367
BC10118	728053	WMWBARAP_1367
BC10119	728053	WMWBARAP_1367
BC10120	728053	WMWBARAP_1367
BC10121	728053	WMWBARAP_1367
BC10122	728053	WMWBARAP_1367
BC10123	728054	WMWBARAP_1367
BC10124	728054	WMWBARAP_1367
BC10125	728054	WMWBARAP_1367
BC10126	728054	WMWBARAP_1367
BC10127	728054	WMWBARAP_1367
BC10128	728054	WMWBARAP_1367
BC10129	728054	WMWBARAP_1367

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
 - BC09983 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC09993 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC10112 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC09974	Iron, Sodium	50.75
BC09975	Iron	50.75
BC09976	Iron, Sodium	50.75
BC09977	Iron	50.75
BC09979	Calcium, Iron	50.75
BC09981	Calcium, Iron	50.75
BC09982	Iron, Sodium	50.75
BC09983	Iron, Sodium	50.75
BC09984	Iron	50.75
BC09985	Iron, Sodium	50.75
BC09986	Iron	50.75
BC09987	Iron, Sodium	50.75
BC09988	Iron	50.75
BC09989	Iron	50.75
BC09991	Iron, Sodium	50.75
BC09992	Iron	50.75
BC09993	Iron, Sodium	50.75
BC09994	Iron, Sodium	50.75
BC09995	Iron, Sodium	50.75
BC09996	Iron, Sodium	50.75
BC09997	Iron, Sodium	50.75
BC09998	Iron, Sodium	50.75
BC09999	Calcium, Iron	50.75

Case Narrative

BC10000	Sodium	50.75
BC10111	Iron, Sodium	50.75
BC10112	Iron, Sodium	50.75
BC10113	Iron	50.75
BC10114	Iron	50.75
BC10115	Iron, Sodium	20.3
BC10116	Iron	50.75
BC10118	Calcium, Sodium	20.3
BC10119	Iron	50.75
BC10120	Sodium	20.3
BC10121	Iron	50.75
BC10126	Iron	50.75

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	727585	WMWBARAP_1367
BC09975	727585	WMWBARAP_1367
BC09976	727585	WMWBARAP_1367
BC09977	727585	WMWBARAP_1367
BC09979	727585	WMWBARAP_1367
BC09981	727585	WMWBARAP_1367
BC09982	727585	WMWBARAP_1367
BC09983	727585	WMWBARAP_1367
BC09984	727585	WMWBARAP_1367
BC09985	727585	WMWBARAP_1367
BC09986	727586	WMWBARAP_1367
BC09987	727586	WMWBARAP_1367
BC09988	727586	WMWBARAP_1367
BC09989	727586	WMWBARAP_1367
BC09991	727586	WMWBARAP_1367
BC09992	727586	WMWBARAP_1367
BC09993	727586	WMWBARAP_1367
BC09994	727586	WMWBARAP_1367
BC09995	727586	WMWBARAP_1367
BC09996	727586	WMWBARAP_1367
BC09997	727587	WMWBARAP_1367
BC09998	727587	WMWBARAP_1367
BC09999	727587	WMWBARAP_1367
BC10000	727587	WMWBARAP_1367
BC10001	727587	WMWBARAP_1367
BC10111	727587	WMWBARAP_1367
BC10112	727587	WMWBARAP_1367
BC10113	727587	WMWBARAP_1367
BC10114	727587	WMWBARAP_1367
BC10115	727587	WMWBARAP_1367
BC10116	727588	WMWBARAP_1367

BC10117	727588	WMWBARAP_1367
BC10118	727588	WMWBARAP_1367
BC10119	727588	WMWBARAP_1367
BC10120	727588	WMWBARAP_1367
BC10121	727588	WMWBARAP_1367
BC10122	727588	WMWBARAP_1367
BC10124	727588	WMWBARAP_1367
BC10125	727588	WMWBARAP_1367
BC10126	727588	WMWBARAP_1367
BC10127	727589	WMWBARAP_1367
BC10128	727589	WMWBARAP_1367

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
 - BC09985 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC09996 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC10115 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC10126 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC09974	Iron, Sodium	50.75
BC09975	Iron	50.75
BC09976	Iron, Sodium	50.75
BC09977	Iron	50.75
BC09979	Calcium, Iron	50.75
BC09981	Calcium, Iron	50.75
BC09982	Iron, Sodium	50.75
BC09983	Iron, Sodium	50.75
BC09984	Iron	50.75
BC09985	Iron, Sodium	50.75
BC09986	Iron	50.75
BC09987	Iron, Sodium	50.75
BC09988	Iron	50.75
BC09989	Iron	50.75
BC09991	Iron, Sodium	50.75
BC09992	Iron	50.75
BC09993	Iron, Sodium	50.75
BC09994	Iron, Sodium	50.75
BC09995	Iron, Sodium	50.75
BC09996	Iron, Sodium	50.75
BC09997	Iron, Sodium	50.75
BC09998	Iron, Sodium	50.75
BC09999	Calcium, Iron	50.75
BC10000	Sodium	50.75
BC10111	Iron, Sodium	50.75
BC10112	Iron, Sodium	50.75
BC10113	Iron	50.75
BC10114	Iron	50.75

Case Narrative

BC10115	Sodium	10.15
BC10116	Iron	50.75
BC10118	Calcium, Sodium	20.3
BC10119	Iron	50.75
BC10120	Sodium	20.3
BC10121	Iron	50.75
BC10126	Iron	50.75

8. The raw data results are shown with dilution factors included.

Case Narrative

Total Metals ICPMS

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	728138	WMWBARAP_1367
BC09975	728138	WMWBARAP_1367
BC09976	728138	WMWBARAP_1367
BC09977	728138	WMWBARAP_1367
BC09978	728138	WMWBARAP_1367
BC09979	728138	WMWBARAP_1367
BC09980	728138	WMWBARAP_1367
BC09981	728138	WMWBARAP_1367
BC09982	728138	WMWBARAP_1367
BC09983	728138	WMWBARAP_1367
BC09984	728139	WMWBARAP_1367
BC09985	728139	WMWBARAP_1367
BC09986	728139	WMWBARAP_1367
BC09987	728139	WMWBARAP_1367
BC09988	728139	WMWBARAP_1367
BC09989	728139	WMWBARAP_1367
BC09990	728139	WMWBARAP_1367
BC09991	728139	WMWBARAP_1367
BC09992	728139	WMWBARAP_1367
BC09993	728139	WMWBARAP_1367
BC09994	728140	WMWBARAP_1367
BC09995	728140	WMWBARAP_1367
BC09996	728140	WMWBARAP_1367
BC09997	728140	WMWBARAP_1367
BC09998	728140	WMWBARAP_1367
BC09999	728140	WMWBARAP_1367
BC10000	728140	WMWBARAP_1367
BC10001	728140	WMWBARAP_1367
BC10111	728140	WMWBARAP_1367
BC10112	728140	WMWBARAP_1367
BC10113	728141	WMWBARAP_1367

BC10114	728141	WMWBARAP_1367
BC10115	728141	WMWBARAP_1367
BC10116	728141	WMWBARAP_1367
BC10117	728141	WMWBARAP_1367
BC10118	728141	WMWBARAP_1367
BC10119	728141	WMWBARAP_1367
BC10120	728141	WMWBARAP_1367
BC10121	728141	WMWBARAP_1367
BC10122	728141	WMWBARAP_1367
BC10123	728142	WMWBARAP_1367
BC10124	728142	WMWBARAP_1367
BC10125	728142	WMWBARAP_1367
BC10126	728142	WMWBARAP_1367
BC10127	728142	WMWBARAP_1367
BC10128	728142	WMWBARAP_1367
BC10129	728142	WMWBARAP_1367

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC10112 Aluminum MS and/or MSD recovery is outside specification limits.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC09977	Manganese	5.075
BC09979	Manganese	5.075
BC09984	Manganese	5.075
BC09992	Manganese	5.075
BC09995	Manganese	5.075
BC09996	Manganese	5.075
BC09997	Manganese	5.075
BC10118	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	728138	WMWBARAP_1367
BC09975	728138	WMWBARAP_1367
BC09976	728138	WMWBARAP_1367
BC09977	728138	WMWBARAP_1367
BC09979	728138	WMWBARAP_1367
BC09981	728138	WMWBARAP_1367
BC09982	728138	WMWBARAP_1367
BC09983	728138	WMWBARAP_1367
BC09984	728139	WMWBARAP_1367
BC09985	728139	WMWBARAP_1367
BC09986	728139	WMWBARAP_1367
BC09987	728139	WMWBARAP_1367
BC09988	728139	WMWBARAP_1367
BC09989	728139	WMWBARAP_1367
BC09991	728139	WMWBARAP_1367
BC09992	728139	WMWBARAP_1367
BC09993	728139	WMWBARAP_1367
BC09994	728140	WMWBARAP_1367
BC09995	728140	WMWBARAP_1367
BC09996	728140	WMWBARAP_1367
BC09997	728140	WMWBARAP_1367
BC09998	728140	WMWBARAP_1367
BC09999	728140	WMWBARAP_1367
BC10000	728140	WMWBARAP_1367
BC10001	728140	WMWBARAP_1367
BC10111	728140	WMWBARAP_1367
BC10112	728140	WMWBARAP_1367
BC10113	728141	WMWBARAP_1367
BC10114	728141	WMWBARAP_1367
BC10115	728141	WMWBARAP_1367
BC10116	728141	WMWBARAP_1367

BC10117	728141	WMWBARAP_1367
BC10118	728141	WMWBARAP_1367
BC10119	728141	WMWBARAP_1367
BC10120	728141	WMWBARAP_1367
BC10121	728141	WMWBARAP_1367
BC10122	728141	WMWBARAP_1367
BC10124	728142	WMWBARAP_1367
BC10125	728142	WMWBARAP_1367
BC10126	728142	WMWBARAP_1367
BC10127	728142	WMWBARAP_1367
BC10128	728142	WMWBARAP_1367

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC09996 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC10126 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC09977	Manganese	5.075
BC09979	Manganese	5.075
BC09984	Manganese	5.075
BC09992	Manganese	5.075
BC09996	Manganese	5.075
BC09997	Manganese	5.075
BC10118	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Mercury

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	727489	WMWBARAP_1367
BC09975	727489	WMWBARAP_1367
BC09976	727489	WMWBARAP_1367
BC09977	727489	WMWBARAP_1367
BC09978	727489	WMWBARAP_1367
BC09979	727489	WMWBARAP_1367
BC09980	727489	WMWBARAP_1367
BC09981	727489	WMWBARAP_1367
BC09982	727489	WMWBARAP_1367
BC09983	727489	WMWBARAP_1367
BC09984	727490	WMWBARAP_1367
BC09985	727490	WMWBARAP_1367
BC09986	727490	WMWBARAP_1367
BC09987	727490	WMWBARAP_1367
BC09988	727490	WMWBARAP_1367
BC09989	727490	WMWBARAP_1367
BC09990	727490	WMWBARAP_1367
BC09991	727490	WMWBARAP_1367
BC09992	727490	WMWBARAP_1367
BC09993	727490	WMWBARAP_1367
BC09994	728312	WMWBARAP_1367
BC09995	728312	WMWBARAP_1367
BC09996	728312	WMWBARAP_1367
BC09997	728312	WMWBARAP_1367
BC09998	728312	WMWBARAP_1367
BC09999	728312	WMWBARAP_1367
BC10000	728312	WMWBARAP_1367
BC10001	728312	WMWBARAP_1367
BC10111	728312	WMWBARAP_1367
BC10112	728312	WMWBARAP_1367
BC10113	728313	WMWBARAP_1367

BC10114	728313	WMWBARAP_1367
BC10115	728313	WMWBARAP_1367
BC10116	728313	WMWBARAP_1367
BC10117	728313	WMWBARAP_1367
BC10118	728313	WMWBARAP_1367
BC10119	728313	WMWBARAP_1367
BC10120	728313	WMWBARAP_1367
BC10121	728313	WMWBARAP_1367
BC10122	728313	WMWBARAP_1367
BC10123	728314	WMWBARAP_1367
BC10124	728314	WMWBARAP_1367
BC10125	728314	WMWBARAP_1367
BC10126	728314	WMWBARAP_1367
BC10127	728314	WMWBARAP_1367
BC10128	728314	WMWBARAP_1367
BC10129	728314	WMWBARAP_1367

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Revision 5

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution.

Total Dissolved Solids

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	727313	WMWBARAP_1367
BC09975	727313	WMWBARAP_1367
BC09976	727313	WMWBARAP_1367
BC09977	727313	WMWBARAP_1367
BC09978	727313	WMWBARAP_1367
BC09979	727313	WMWBARAP_1367
BC09980	727313	WMWBARAP_1367
BC09981	727664	WMWBARAP_1367
BC09982	727664	WMWBARAP_1367
BC09983	727665	WMWBARAP_1367
BC09984	727313	WMWBARAP_1367
BC09985	727313	WMWBARAP_1367
BC09986	727313	WMWBARAP_1367
BC09987	727314	WMWBARAP_1367
BC09988	727314	WMWBARAP_1367
BC09989	727314	WMWBARAP_1367
BC09990	727314	WMWBARAP_1367
BC09991	727664	WMWBARAP_1367
BC09992	727664	WMWBARAP_1367
BC09993	727665	WMWBARAP_1367
BC09994	727314	WMWBARAP_1367
BC09995	727314	WMWBARAP_1367
BC09996	727314	WMWBARAP_1367
BC09997	727314	WMWBARAP_1367
BC09998	727314	WMWBARAP_1367
BC09999	727314	WMWBARAP_1367
BC10000	727664	WMWBARAP_1367
BC10001	727665	WMWBARAP_1367
BC10111	727706	WMWBARAP_1367
BC10112	727706	WMWBARAP_1367
BC10113	727706	WMWBARAP_1367

BC10114	727706	WMWBARAP_1367
BC10115	727706	WMWBARAP_1367
BC10116	727706	WMWBARAP_1367
BC10117	727706	WMWBARAP_1367
BC10118	727706	WMWBARAP_1367
BC10119	727707	WMWBARAP_1367
BC10120	727707	WMWBARAP_1367
BC10121	727707	WMWBARAP_1367
BC10122	727707	WMWBARAP_1367
BC10123	727707	WMWBARAP_1367
BC10124	727707	WMWBARAP_1367
BC10125	727707	WMWBARAP_1367
BC10126	727707	WMWBARAP_1367
BC10127	727707	WMWBARAP_1367
BC10128	727707	WMWBARAP_1367
BC10129	727760	WMWBARAP_1367

4. All of the above samples were analyzed and prepared by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC09978
 - BC09980
 - BC09990
 - BC10123
 - BC10129

Alkalinity

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	727744,727745	WMWBARAP_1367
BC09975	728143,728144	WMWBARAP_1367
BC09976	728143,728144	WMWBARAP_1367
BC09977	728143,728144	WMWBARAP_1367
BC09979	728367,728368	WMWBARAP_1367
BC09981	728367,728368	WMWBARAP_1367
BC09982	728367,728368	WMWBARAP_1367
BC09983	728367,728368	WMWBARAP_1367
BC09984	728143,728144	WMWBARAP_1367
BC09985	728143,728144	WMWBARAP_1367
BC09986	728143,728144	WMWBARAP_1367
BC09987	728143,728144	WMWBARAP_1367
BC09988	728367,728368	WMWBARAP_1367
BC09989	728367,728368	WMWBARAP_1367
BC09991	728367,728368	WMWBARAP_1367
BC09992	728367,728368	WMWBARAP_1367
BC09993	728367,728368	WMWBARAP_1367
BC09994	728180,728181	WMWBARAP_1367
BC09995	728180,728181	WMWBARAP_1367
BC09996	728180,728181	WMWBARAP_1367
BC09997	728180,728181	WMWBARAP_1367
BC09998	728180,728181	WMWBARAP_1367
BC09999	728367,728368	WMWBARAP_1367
BC10000	728367,728368	WMWBARAP_1367
BC10001	728367,728368	WMWBARAP_1367
BC10111	728541,728542	WMWBARAP_1367
BC10112	728541,728542	WMWBARAP_1367
BC10113	728549,728550	WMWBARAP_1367
BC10114	728549,728550	WMWBARAP_1367
BC10115	728562,728563	WMWBARAP_1367
BC10116	728562,728563	WMWBARAP_1367

BC10117	728562,728563	WMWBARAP_1367
BC10118	728541,728542	WMWBARAP_1367
BC10119	728541,728542	WMWBARAP_1367
BC10120	728541,728542	WMWBARAP_1367
BC10121	728562,728563	WMWBARAP_1367
BC10122	728562,728563	WMWBARAP_1367
BC10124	728541,728542	WMWBARAP_1367
BC10125	728549,728550	WMWBARAP_1367
BC10126	728562,728563	WMWBARAP_1367
BC10127	728562,728563	WMWBARAP_1367
BC10128	728562,728563	WMWBARAP_1367

4. All of the above samples were analyzed and prepared by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
 - A final pH check was analyzed with each batch. The acceptance criteria were met.
 - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
 - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
 - BC09993
 - BC10118

Anions

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	728172,728640,728614	WMWBARAP_1367
BC09975	728172,728640,728614	WMWBARAP_1367
BC09976	728172,728640,728614	WMWBARAP_1367
BC09977	728172,728640,728614	WMWBARAP_1367
BC09978	728172,728640,728614	WMWBARAP_1367
BC09979	728172,728640,728614	WMWBARAP_1367
BC09980	728172,728640,728614	WMWBARAP_1367
BC09981	728172,728640,728614	WMWBARAP_1367
BC09982	728172,728640,728614	WMWBARAP_1367
BC09983	728172,728640,728614	WMWBARAP_1367
BC09984	728173,728641,728615	WMWBARAP_1367
BC09985	728173,728641,728615	WMWBARAP_1367
BC09986	728173,728641,728615	WMWBARAP_1367
BC09987	728173,728641,728615	WMWBARAP_1367
BC09988	728173,728641,728615	WMWBARAP_1367
BC09989	728173,728641,728615	WMWBARAP_1367
BC09990	728173,728641,728615	WMWBARAP_1367
BC09991	728173,728641,728615	WMWBARAP_1367
BC09992	728173,728641,728615	WMWBARAP_1367
BC09993	728173,728641,728615	WMWBARAP_1367
BC09994	728174,728642,728616	WMWBARAP_1367
BC09995	728174,728642,728616	WMWBARAP_1367
BC09996	728174,728642,728616	WMWBARAP_1367
BC09997	728174,728642,728616	WMWBARAP_1367
BC09998	728174,728642,728616	WMWBARAP_1367
BC09999	728174,728642,728616	WMWBARAP_1367
BC10000	728174,728642,728616	WMWBARAP_1367
BC10001	728174,728642,728616	WMWBARAP_1367
BC10111	728174,728642,728616	WMWBARAP_1367
BC10112	728174,728642,728616	WMWBARAP_1367
BC10113	728175,728643,728617	WMWBARAP_1367

BC10114	728175,728643,728617	WMWBARAP_1367
BC10115	728175,728643,728617	WMWBARAP_1367
BC10116	728175,728643,728617	WMWBARAP_1367
BC10117	728175,728643,728617	WMWBARAP_1367
BC10118	728175,728643,728617	WMWBARAP_1367
BC10119	728175,728643,728617	WMWBARAP_1367
BC10120	728175,728643,728617	WMWBARAP_1367
BC10121	728175,728643,728617	WMWBARAP_1367
BC10122	728175,728643,728617	WMWBARAP_1367
BC10123	728177,728644,728618	WMWBARAP_1367
BC10124	728177,728644,728618	WMWBARAP_1367
BC10125	728177,728644,728618	WMWBARAP_1367
BC10126	728177,728644,728618	WMWBARAP_1367
BC10127	728177,728644,728618	WMWBARAP_1367
BC10128	728177,728644,728618	WMWBARAP_1367
BC10129	728177,728644,728618	WMWBARAP_1367

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, & SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Case Narrative

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met, except for the following:
 - BC09983 Sulfate MS and/or MSD recovery is outside of the specification limits.
 - A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC09974	Chloride, Sulfate	3,4
BC09975	Chloride	2
BC09976	Chloride, Sulfate	4,4
BC09977	Chloride	2
BC09979	Chloride	2
BC09981	Chloride	2
BC09982	Chloride	4
BC09983	Chloride, Sulfate	4,2
BC09985	Chloride	4
BC09987	Chloride	20
BC09991	Chloride	10
BC09993	Chloride	20
BC09994	Chloride	3
BC09995	Chloride	3
BC09996	Chloride	3
BC09997	Chloride	3
BC09998	Chloride	4
BC09999	Chloride	3
BC10000	Chloride	10
BC10111	Chloride, Sulfate	10,4
BC10112	Chloride, Sulfate	10,8
BC10113	Chloride	10
BC10114	Chloride	10
BC10115	Chloride	10
BC10118	Chloride, Sulfate	40,2
BC10120	Chloride	20
BC10127	Chloride	3

8. The raw data results are shown with dilution factors included.

Nitrate-Nitrite

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	727376	WMWBARAP_1367
BC09975	727376	WMWBARAP_1367
BC09976	727376	WMWBARAP_1367
BC09977	727376	WMWBARAP_1367
BC09978	727376	WMWBARAP_1367
BC09979	727376	WMWBARAP_1367
BC09980	727376	WMWBARAP_1367
BC09981	727376	WMWBARAP_1367
BC09982	727376	WMWBARAP_1367
BC09983	727376	WMWBARAP_1367
BC09984	727377	WMWBARAP_1367
BC09985	727377	WMWBARAP_1367
BC09986	727377	WMWBARAP_1367
BC09987	727377	WMWBARAP_1367
BC09988	727377	WMWBARAP_1367
BC09989	727377	WMWBARAP_1367
BC09990	727377	WMWBARAP_1367
BC09991	727377	WMWBARAP_1367
BC09992	727377	WMWBARAP_1367
BC09993	727377	WMWBARAP_1367
BC09994	727378	WMWBARAP_1367
BC09995	727378	WMWBARAP_1367
BC09996	727378	WMWBARAP_1367
BC09997	727378	WMWBARAP_1367
BC09998	727378	WMWBARAP_1367
BC09999	727378	WMWBARAP_1367
BC10000	727378	WMWBARAP_1367
BC10001	727378	WMWBARAP_1367
BC10111	727708	WMWBARAP_1367
BC10112	727708	WMWBARAP_1367
BC10113	727708	WMWBARAP_1367

BC10114	727708	WMWBARAP_1367
BC10115	727708	WMWBARAP_1367
BC10116	727708	WMWBARAP_1367
BC10117	727708	WMWBARAP_1367
BC10118	727708	WMWBARAP_1367
BC10119	727708	WMWBARAP_1367
BC10120	727708	WMWBARAP_1367
BC10121	727709	WMWBARAP_1367
BC10122	727709	WMWBARAP_1367
BC10123	727709	WMWBARAP_1367
BC10124	727709	WMWBARAP_1367
BC10125	727709	WMWBARAP_1367
BC10126	727709	WMWBARAP_1367
BC10127	727709	WMWBARAP_1367
BC10128	727709	WMWBARAP_1367
BC10129	727709	WMWBARAP_1367

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met.
 - A matrix spike was run and criteria for accuracy was met.
- 7. All samples were analyzed without a dilution factor.
- 8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Barry Ash Pond

WMWBARAP_1367

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC09974	727710	WMWBARAP_1367
BC09975	727710	WMWBARAP_1367
BC09976	727710	WMWBARAP_1367
BC09977	727710	WMWBARAP_1367
BC09978	727710	WMWBARAP_1367
BC09979	727710	WMWBARAP_1367
BC09980	727710	WMWBARAP_1367
BC09981	727710	WMWBARAP_1367
BC09982	727710	WMWBARAP_1367
BC09983	727710	WMWBARAP_1367
BC09984	727711	WMWBARAP_1367
BC09985	727711	WMWBARAP_1367
BC09986	727711	WMWBARAP_1367
BC09987	727711	WMWBARAP_1367
BC09988	727711	WMWBARAP_1367
BC09989	727711	WMWBARAP_1367
BC09990	727711	WMWBARAP_1367
BC09991	727711	WMWBARAP_1367
BC09992	727711	WMWBARAP_1367
BC09993	727711	WMWBARAP_1367
BC09994	727712	WMWBARAP_1367
BC09995	727712	WMWBARAP_1367
BC09996	727712	WMWBARAP_1367
BC09997	727712	WMWBARAP_1367
BC09998	727712	WMWBARAP_1367
BC09999	727712	WMWBARAP_1367
BC10000	727712	WMWBARAP_1367
BC10001	727712	WMWBARAP_1367
BC10111	728184	WMWBARAP_1367
BC10112	728184	WMWBARAP_1367
BC10113	728184	WMWBARAP_1367

BC10114	728184	WMWBARAP_1367
BC10115	728184	WMWBARAP_1367
BC10116	728184	WMWBARAP_1367
BC10117	728184	WMWBARAP_1367
BC10118	728184	WMWBARAP_1367
BC10119	728184	WMWBARAP_1367
BC10120	728184	WMWBARAP_1367
BC10121	728185	WMWBARAP_1367
BC10122	728185	WMWBARAP_1367
BC10123	728185	WMWBARAP_1367
BC10124	728185	WMWBARAP_1367
BC10125	728185	WMWBARAP_1367
BC10126	728185	WMWBARAP_1367
BC10127	728185	WMWBARAP_1367
BC10128	728185	WMWBARAP_1367
BC10129	728185	WMWBARAP_1367

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was $<1/2RL$.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were $<1/2RL$.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 5/23/22 15:48
Customer ID:
Submittal Date: 5/25/22 14:49

Laboratory ID Number: BC09974

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 09:41		1.015	0.0653	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 09:41		1.015	28.6	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 10:18		50.75	55.8	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 09:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 09:41		1.015	17.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 09:41		1	16.6	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 09:41		1.015	7.78	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 10:18		50.75	96.4	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:36		1.015	0.0647	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 10:36		1.015	28.4	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:14		50.75	53.9	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:36		1.015	17.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:36		1	16.0	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:36		1.015	7.50	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:14		50.75	99.5	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 16:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 16:19		1.015	0.0264	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 16:19		1.015	0.0136	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 16:19		1.015	0.0963	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 16:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 16:19		1.015	0.00233	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/22 11:30	6/1/22 16:19		1.015	0.00423	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 16:19		1.015	0.507	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:19		1.015	0.000537	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 16:19		1.015	3.44	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 5/23/22 15:48
Customer ID:
Submittal Date: 5/25/22 14:49

Laboratory ID Number: BC09974

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 16:19		1.015	0.000538	mg/L	0.000508	0.001015	J
* Thallium, Total	6/1/22 11:30	6/1/22 16:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	0.00856	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	0.0134	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	0.100	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	0.00235	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	0.00426	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	0.502	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	0.000399	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	3.31	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:11	5/26/22 13:11		1	0.231	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	5/31/22 13:12	5/31/22 15:37		1	377	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	462	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	5/31/22 13:12	5/31/22 15:37		1	377	mg/L			
Carbonate Alkalinity, (calc.)	5/31/22 13:12	5/31/22 15:37		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 16:03	5/31/22 16:03		1	28.3	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP

Collected: 5/23/22 15:48

Customer ID:

Submittal Date: 5/25/22 14:49

Laboratory ID Number: BC09974

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:40	5/31/22 13:40		3	44.1	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:18	6/8/22 11:18		1	0.124	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:19	6/7/22 13:19		4	95.1	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/23/22 15:45	5/23/22 15:45			784.43	uS/cm			FA
pH	5/23/22 15:45	5/23/22 15:45			6.15	SU			FA
Temperature	5/23/22 15:45	5/23/22 15:45			19.98	C			FA
Turbidity	5/23/22 15:45	5/23/22 15:45			1.75	NTU			FA
Sulfide	5/23/22 15:45	5/23/22 15:45			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 15:48

Customer ID:

Delivery Date: 5/25/22 14:49

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BC09974

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC09985	Aluminum, Dissolved	mg/L	-0.0000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0	
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0	
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0	
BC09985	Arsenic, Dissolved	mg/L	0.0000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0	
BC09983	Arsenic, Total	mg/L	0.0000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BC09985	Barium, Dissolved	mg/L	-0.0000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0	
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0	
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0	
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0	
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0	
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0	
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0	
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0	
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0	
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0	
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0	
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0	
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0	
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0	
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0	
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 15:48

Customer ID:

Delivery Date: 5/25/22 14:49

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BC09974

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 15:48

Customer ID:

Delivery Date: 5/25/22 14:49

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BC09974

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/23/22 15:48
Customer ID:
Delivery Date: 5/25/22 14:49

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BC09974

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC09974	Alkalinity, Total as CaCO3	mg/L					373	50.4	45.0 to 55.0			1.07	10.0
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 5/23/22 17:26
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09975

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 09:44		1.015	0.259	mg/L	0.030000	0.1015		
* Calcium, Total	5/31/22 10:50	6/2/22 09:44		1.015	24.4	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 10:22		50.75	73.1	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 09:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 09:44		1.015	14.0	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 09:44		1	15.3	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 09:44		1.015	7.13	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 09:44		1.015	36.3	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:38		1.015	0.254	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/27/22 09:45	6/1/22 10:38		1.015	24.3	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:17		50.75	68.0	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:38		1.015	13.8	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:38		1	14.8	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:38		1.015	6.92	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 10:38		1.015	36.3	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 16:23		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 16:23		1.015	0.00840	mg/L	0.006090	0.01015	J	
* Arsenic, Total	6/1/22 11:30	6/1/22 16:23		1.015	0.00386	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 16:23		1.015	0.277	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 16:23		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 16:23		1.015	0.00124	mg/L	0.000203	0.001015		
* Cobalt, Total	6/1/22 11:30	6/1/22 16:23		1.015	0.000921	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 16:23		1.015	0.762	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:23		1.015	0.000286	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 16:23		1.015	2.59	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 5/23/22 17:26
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09975

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 16:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 16:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	0.00414	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	0.282	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	0.00119	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	0.000941	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	0.761	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	0.000301	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	2.48	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:12	5/26/22 13:12		1	0.298	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/2/22 11:04	6/2/22 15:20		1	267	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	331	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	267	mg/L			
Carbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 16:22	5/31/22 16:22		1	16.2	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 5/23/22 17:26
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09975

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:41	5/31/22 13:41		2	22.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:20	6/8/22 11:20		1	0.108	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 12:33	6/7/22 12:33		1	8.35	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/23/22 17:23	5/23/22 17:23			557.51	uS/cm			FA
pH	5/23/22 17:23	5/23/22 17:23			6.08	SU			FA
Temperature	5/23/22 17:23	5/23/22 17:23			20.86	C			FA
Turbidity	5/23/22 17:23	5/23/22 17:23			1.61	NTU			FA
Sulfide	5/23/22 17:23	5/23/22 17:23			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/23/22 17:26
Customer ID:
Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BC09975

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC09985	Aluminum, Dissolved	mg/L	-0.0000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC09985	Arsenic, Dissolved	mg/L	0.0000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0
BC09983	Arsenic, Total	mg/L	0.0000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC09985	Barium, Dissolved	mg/L	-0.0000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/23/22 17:26
Customer ID:
Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BC09975

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 17:26

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BC09975

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 17:26

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BC09975

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09987	Alkalinity, Total as CaCO3	mg/L					34.9	51.7	45.0 to 55.0			4.39	10.0
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 5/24/22 09:14
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09976

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 09:47		1.015	0.0562	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 09:47		1.015	14.4	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 10:25		50.75	69.9	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 09:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 09:47		1.015	13.4	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 09:47		1	19.5	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 09:47		1.015	9.11	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 10:25		50.75	77.2	mg/L	1.5225	20.3		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:41		1.015	0.0575	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 10:41		1.015	14.5	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:21		50.75	66.3	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:41		1.015	13.1	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:41		1	18.8	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:41		1.015	8.80	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:21		50.75	76.9	mg/L	1.5225	20.3		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 16:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 16:26		1.015	0.0206	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 16:26		1.015	0.0197	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 16:26		1.015	0.215	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 16:26		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 16:26		1.015	0.000566	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 16:26		1.015	0.00270	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 16:26		1.015	0.552	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:26		1.015	0.00145	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 16:26		1.015	2.06	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 5/24/22 09:14
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09976

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 16:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 16:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	0.0185	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	0.217	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	0.000516	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	0.00276	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	0.599	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	0.00138	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	1.94	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 15:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:24		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:14	5/26/22 13:14		1	0.243	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/2/22 11:04	6/2/22 15:20		1	246	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	372	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	246	mg/L			
Carbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 16:41	5/31/22 16:41		1	17.5	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 5/24/22 09:14
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09976

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:52	5/31/22 13:52		4	57.1	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:21	6/8/22 11:21		1	0.318	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:20	6/7/22 13:20		4	103	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/24/22 09:11	5/24/22 09:11			669.92	uS/cm			FA
pH	5/24/22 09:11	5/24/22 09:11			6.57	SU			FA
Temperature	5/24/22 09:11	5/24/22 09:11			20.28	C			FA
Turbidity	5/24/22 09:11	5/24/22 09:11			2.32	NTU			FA
Sulfide	5/24/22 09:11	5/24/22 09:11			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:14

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BC09976

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC09985	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0	
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0	
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0	
BC09985	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0	
BC09983	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BC09985	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0	
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0	
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0	
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0	
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0	
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0	
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0	
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0	
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0	
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0	
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0	
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0	
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0	
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0	
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0	
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:14

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BC09976

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:14

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BC09976

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 09:14
Customer ID:
Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BC09976

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09987	Alkalinity, Total as CaCO3	mg/L					34.9	51.7	45.0 to 55.0			4.39	10.0
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 5/24/22 10:50
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09977

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 09:50		1.015	1.12	mg/L	0.030000	0.1015		
* Calcium, Total	5/31/22 10:50	6/2/22 09:50		1.015	31.5	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 10:29		50.75	74.0	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 09:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 09:50		1.015	10.0	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 09:50		1	32.7	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 09:50		1.015	15.3	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 09:50		1.015	19.4	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:44		1.015	1.11	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/27/22 09:45	6/1/22 10:44		1.015	31.5	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:24		50.75	73.6	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:44		1.015	9.89	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:44		1	32.3	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:44		1.015	15.1	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 10:44		1.015	19.5	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 16:30		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 16:30		1.015	0.00884	mg/L	0.006090	0.01015	J	
* Arsenic, Total	6/1/22 11:30	6/1/22 16:30		1.015	0.0583	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 16:30		1.015	0.142	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 16:30		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 16:30		1.015	0.00128	mg/L	0.000203	0.001015		
* Cobalt, Total	6/1/22 11:30	6/1/22 16:30		1.015	0.000666	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 20:50		5.075	1.78	mg/L	0.000761	0.001015		
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:30		1.015	0.000234	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 16:30		1.015	0.802	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 5/24/22 10:50
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09977

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 16:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 16:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	0.0591	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	0.148	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	0.00129	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	0.000710	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	6/1/22 17:04		5.075	1.77	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	0.000258	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	0.772	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:16	5/26/22 13:16		1	0.243	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/2/22 11:04	6/2/22 15:20		1	238	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	303	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	238	mg/L			
Carbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 16:59	5/31/22 16:59		1	13.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 5/24/22 10:50
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09977

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:44	5/31/22 13:44		2	27.2	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:22	6/8/22 11:22		1	0.0713	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 12:35	6/7/22 12:35		1	9.75	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/24/22 10:46	5/24/22 10:46			508.10	uS/cm			FA
pH	5/24/22 10:46	5/24/22 10:46			5.60	SU			FA
Temperature	5/24/22 10:46	5/24/22 10:46			21.81	C			FA
Turbidity	5/24/22 10:46	5/24/22 10:46			3.51	NTU			FA
Sulfide	5/24/22 10:46	5/24/22 10:46			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 10:50

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BC09977

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC09985	Aluminum, Dissolved	mg/L	-0.0000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0	
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0	
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0	
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0	
BC09985	Arsenic, Dissolved	mg/L	0.0000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0	
BC09983	Arsenic, Total	mg/L	0.0000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BC09985	Barium, Dissolved	mg/L	-0.0000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0	
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0	
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0	
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0	
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0	
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0	
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0	
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0	
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0	
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0	
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0	
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0	
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0	
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0	
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0	
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 10:50

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BC09977

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 10:50

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BC09977

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115		106	70.0 to 130		2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2			105	80.0 to 120		0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 10:50

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BC09977

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC09987	Alkalinity, Total as CaCO3	mg/L					34.9	51.7	45.0 to 55.0			4.39	10.0
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-1

Location Code: WMWBARAPFB
Collected: 5/24/22 11:15
Customer ID:
Submittal Date: 5/25/22 14:51

Laboratory ID Number: BC09978

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 09:53		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 09:53		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/31/22 10:50	6/2/22 09:53		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/31/22 10:50	6/2/22 09:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 09:53		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 09:53		1	Not Detected	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 09:53		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/31/22 10:50	6/2/22 09:53		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	6/1/22 11:30	6/1/22 16:33		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:29		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: CES								
* Nitrogen, Nitrate/Nitrite	5/26/22 13:18	5/26/22 13:18		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-1

Location Code: WMWBARAPFB

Collected: 5/24/22 11:15

Customer ID:

Submittal Date: 5/25/22 14:51

Laboratory ID Number: BC09978

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 17:18	5/31/22 17:18		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:38	5/31/22 13:38		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:23	6/8/22 11:23		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 12:36	6/7/22 12:36		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/24/22 11:15

Customer ID:

Delivery Date: 5/25/22 14:51

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BC09978

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC09983	Arsenic, Total	mg/L	0.0000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/24/22 11:15

Customer ID:

Delivery Date: 5/25/22 14:51

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BC09978

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0		
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0		
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0		

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/24/22 11:15

Customer ID:

Delivery Date: 5/25/22 14:51

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BC09978

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 5/24/22 12:46
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09979

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 09:56		1.015	2.34	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 10:32		50.75	63.9	mg/L	3.50175	20.3	
* Iron, Total	5/31/22 10:50	6/2/22 10:32		50.75	68.0	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 09:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 09:56		1.015	17.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 09:56		1	25.9	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 09:56		1.015	12.1	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 09:56		1.015	26.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:47		1.015	2.30	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:27		50.75	62.6	mg/L	3.50175	20.3	
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:27		50.75	65.2	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:47		1.015	17.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:47		1	25.3	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:47		1.015	11.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 10:47		1.015	25.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 16:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 16:37		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	6/1/22 11:30	6/1/22 16:37		1.015	0.0775	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 16:37		1.015	0.0618	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 16:37		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 16:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 16:37		1.015	0.000522	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 16:37		1.015	0.000543	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 16:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 20:54		5.075	1.82	mg/L	0.000761	0.001015	
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:37		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/1/22 11:30	6/1/22 16:37		1.015	1.46	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 5/24/22 12:46
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09979

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 16:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 16:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	0.0780	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	0.0646	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	0.000640	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	0.000626	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	6/1/22 17:07		5.075	1.79	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	1.41	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:20	5/26/22 13:20		1	0.257	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	337	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	398	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	337	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 17:37	5/31/22 17:37		1	12.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 5/24/22 12:46
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09979

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:45	5/31/22 13:45		2	30.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:24	6/8/22 11:24		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 12:37	6/7/22 12:37		1	5.93	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/24/22 12:43	5/24/22 12:43			680.19	uS/cm			FA
pH	5/24/22 12:43	5/24/22 12:43			5.81	SU			FA
Temperature	5/24/22 12:43	5/24/22 12:43			21.37	C			FA
Turbidity	5/24/22 12:43	5/24/22 12:43			0.2	NTU			FA
Sulfide	5/24/22 12:43	5/24/22 12:43			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 12:46

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BC09979

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09985	Aluminum, Dissolved	mg/L	-0.0000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC09985	Arsenic, Dissolved	mg/L	0.0000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0
BC09983	Arsenic, Total	mg/L	0.0000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC09985	Barium, Dissolved	mg/L	-0.0000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 12:46

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BC09979

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 12:46

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BC09979

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 12:46

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BC09979

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Equipment Blank-1

Location Code: WMWBARAPEB
Collected: 5/24/22 13:43
Customer ID:
Submittal Date: 5/25/22 14:51

Laboratory ID Number: BC09980

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 09:59		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 09:59		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/31/22 10:50	6/2/22 09:59		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/31/22 10:50	6/2/22 09:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 09:59		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 09:59		1	Not Detected	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 09:59		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/31/22 10:50	6/2/22 09:59		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	6/1/22 11:30	6/1/22 16:40		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:34		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: CES								
* Nitrogen, Nitrate/Nitrite	5/26/22 13:22	5/26/22 13:22		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Equipment Blank-1

Location Code: WMWBARAPEB

Collected: 5/24/22 13:43

Customer ID:

Submittal Date: 5/25/22 14:51

Laboratory ID Number: BC09980

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 17:58	5/31/22 17:58		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:39	5/31/22 13:39		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:26	6/8/22 11:26		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 12:39	6/7/22 12:39		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 5/24/22 13:43

Customer ID:

Delivery Date: 5/25/22 14:51

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BC09980

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC09983	Arsenic, Total	mg/L	0.0000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 5/24/22 13:43

Customer ID:

Delivery Date: 5/25/22 14:51

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BC09980

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 5/24/22 13:43

Customer ID:

Delivery Date: 5/25/22 14:51

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BC09980

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 5/24/22 14:44
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09981

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 10:01		1.015	0.938	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 10:35		50.75	65.0	mg/L	3.50175	20.3	
* Iron, Total	5/31/22 10:50	6/2/22 10:35		50.75	106	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 10:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 10:01		1.015	11.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:01		1	29.7	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 10:01		1.015	13.9	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 10:01		1.015	22.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:50		1.015	0.939	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:31		50.75	64.2	mg/L	3.50175	20.3	
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:31		50.75	101	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:50		1.015	11.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:50		1	29.5	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:50		1.015	13.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 10:50		1.015	22.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 16:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 16:44		1.015	0.00682	mg/L	0.006090	0.01015	J
* Arsenic, Total	6/1/22 11:30	6/1/22 16:44		1.015	0.000362	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 16:44		1.015	0.188	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 16:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 16:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 16:44		1.015	0.000493	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 16:44		1.015	0.000618	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 16:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 16:44		1.015	0.812	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:44		1.015	0.000111	mg/L	0.000102	0.000203	J
* Potassium, Total	6/1/22 11:30	6/1/22 16:44		1.015	2.12	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 5/24/22 14:44
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09981

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 16:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 16:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	0.000320	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	0.194	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	0.000624	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	0.000670	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	0.811	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	0.000148	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	1.99	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:23	5/26/22 13:23		1	0.271	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	351	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	5/27/22 11:00	6/2/22 15:15		1	403	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	351	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 18:17	5/31/22 18:17		1	12.0	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 5/24/22 14:44
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09981

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:46	5/31/22 13:46		2	19.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:27	6/8/22 11:27		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 12:40	6/7/22 12:40		1	5.73	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/24/22 14:41	5/24/22 14:41			726.04	uS/cm			FA
pH	5/24/22 14:41	5/24/22 14:41			5.77	SU			FA
Temperature	5/24/22 14:41	5/24/22 14:41			21.44	C			FA
Turbidity	5/24/22 14:41	5/24/22 14:41			1.76	NTU			FA
Sulfide	5/24/22 14:41	5/24/22 14:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 14:44

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BC09981

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC09985	Aluminum, Dissolved	mg/L	-0.0000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC09985	Arsenic, Dissolved	mg/L	0.0000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0
BC09983	Arsenic, Total	mg/L	0.0000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC09985	Barium, Dissolved	mg/L	-0.0000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 14:44

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BC09981

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 14:44

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BC09981

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 14:44

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BC09981

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09982	Solids, Dissolved	mg/L	0.0000	25.0			271	53.0	40.0 to 60.0			5.30	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 5/24/22 15:55
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09982

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 10:04		1.015	0.0457	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 10:04		1.015	19.2	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 10:39		50.75	27.1	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 10:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 10:04		1.015	6.94	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:04		1	15.6	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 10:04		1.015	7.28	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 10:39		50.75	53.9	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:53		1.015	0.0448	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 10:53		1.015	19.2	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:34		50.75	26.2	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:53		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:53		1.015	6.79	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:53		1	15.1	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:53		1.015	7.07	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:34		50.75	54.5	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 16:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.116	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.0128	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.0723	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 16:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 16:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.00685	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.00189	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.000146	mg/L	0.000068	0.000203	J
* Manganese, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.451	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.00356	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 16:48		1.015	2.52	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 5/24/22 15:55
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09982

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 16:48		1.015	0.000558	mg/L	0.000508	0.001015	J
* Thallium, Total	6/1/22 11:30	6/1/22 16:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	0.0115	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	0.0132	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	0.0718	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	0.00634	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	0.00202	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	0.455	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	0.00341	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	2.43	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:25	5/26/22 13:25		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	166	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	5/27/22 11:00	6/2/22 15:15		1	257	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	166	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 18:40	5/31/22 18:40		1	24.0	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 5/24/22 15:55
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09982

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:47	5/31/22 13:47		4	43.5	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:28	6/8/22 11:28		1	0.0769	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 12:41	6/7/22 12:41		1	38.3	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/24/22 15:52	5/24/22 15:52			445.45	uS/cm			FA
pH	5/24/22 15:52	5/24/22 15:52			5.50	SU			FA
Temperature	5/24/22 15:52	5/24/22 15:52			20.79	C			FA
Turbidity	5/24/22 15:52	5/24/22 15:52			4.94	NTU			FA
Sulfide	5/24/22 15:52	5/24/22 15:52			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:55

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BC09982

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC09985	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC09985	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0
BC09983	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC09985	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:55

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BC09982

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
			MB	Limit						Rec	Limit		
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:55

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BC09982

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:55

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BC09982

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC09982	Solids, Dissolved	mg/L	0.0000	25.0			271	53.0	40.0 to 60.0			5.30	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13 Dup

Location Code: WMWBARAP
Collected: 5/24/22 15:55
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09983

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 10:07		1.015	0.0453	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 10:07		1.015	19.0	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 10:42		50.75	26.1	mg/L	0.40600	2.03	RA	
* Lithium, Total	5/31/22 10:50	6/2/22 10:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 10:07		1.015	6.79	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:07		1	15.2	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 10:07		1.015	7.12	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 10:42		50.75	51.6	mg/L	1.5225	20.3	RA	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:56		1.015	0.0451	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 10:56		1.015	19.0	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:38		50.75	26.2	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:56		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:56		1.015	6.89	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:56		1	15.2	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:56		1.015	7.11	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:38		50.75	54.8	mg/L	1.5225	20.3		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 16:51		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 16:51		1.015	0.131	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 16:51		1.015	0.0131	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 16:51		1.015	0.0721	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 16:51		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 16:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 16:51		1.015	0.00665	mg/L	0.000203	0.001015		
* Cobalt, Total	6/1/22 11:30	6/1/22 16:51		1.015	0.00187	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 16:51		1.015	0.000170	mg/L	0.000068	0.000203	J	
* Manganese, Total	6/1/22 11:30	6/1/22 16:51		1.015	0.437	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 16:51		1.015	0.00369	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 16:51		1.015	2.46	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13 Dup

Location Code: WMWBARAP
Collected: 5/24/22 15:55
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09983

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 16:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 16:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	0.0112	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	0.0130	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	0.0713	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	0.00632	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	0.00184	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	0.440	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	0.00350	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	2.28	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:27	5/26/22 13:27		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	182	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	5/27/22 11:00	6/2/22 15:15		1	259	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	182	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 18:58	5/31/22 18:58		1	23.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13 Dup

Location Code: WMWBARAP
Collected: 5/24/22 15:55
Customer ID:
Submittal Date: 5/25/22 14:50

Laboratory ID Number: BC09983

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 13:49	5/31/22 13:49		4	38.2	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:29	6/8/22 11:29		1	0.124	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:22	6/7/22 13:22		2	51.0	mg/L	1.2	4	R
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/24/22 15:52	5/24/22 15:52			445.45	uS/cm			FA
pH	5/24/22 15:52	5/24/22 15:52			5.50	SU			FA
Temperature	5/24/22 15:52	5/24/22 15:52			20.79	C			FA
Turbidity	5/24/22 15:52	5/24/22 15:52			4.94	NTU			FA
Sulfide	5/24/22 15:52	5/24/22 15:52			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:55

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-13 Dup

Laboratory ID Number: BC09983

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC09985	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.256	0.260	0.108	0.0850 to 0.115	125	70.0 to 130	1.55	20.0
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0
BC09983	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.0985	0.0989	0.0925	0.0850 to 0.115	98.5	70.0 to 130	0.405	20.0
BC09985	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0
BC09983	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.116	0.116	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC09985	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0
BC09983	Barium, Total	mg/L	0.000	0.00100	0.100	0.173	0.173	0.0987	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC09983	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.109	0.110	0.105	0.0850 to 0.115	109	70.0 to 130	0.913	20.0
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0
BC09983	Boron, Total	mg/L	0.000087	0.0650	1.00	1.05	1.08	1.02	0.850 to 1.15	100	70.0 to 130	2.82	20.0
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC09983	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0994	0.0987	0.100	0.0850 to 0.115	99.4	70.0 to 130	0.707	20.0
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0
BC09983	Calcium, Total	mg/L	0.00617	0.152	5.00	23.9	24.2	4.91	4.25 to 5.75	98.0	70.0 to 130	1.25	20.0
BC09983	Chloride	mg/L	-0.129	1.00	40.0	74.3	75.5	9.80	9.00 to 11.0	90.2	80.0 to 120	1.60	20.0
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0
BC09983	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.108	0.109	0.101	0.0850 to 0.115	101	70.0 to 130	0.922	20.0
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BC09983	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.103	0.104	0.101	0.0850 to 0.115	101	70.0 to 130	0.966	20.0
BC09983	Fluoride	mg/L	-0.043	0.125	2.50	2.76	2.80	2.53	2.25 to 2.75	105	80.0 to 120	1.44	20.0
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:55

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-13 Dup

Laboratory ID Number: BC09983

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC09983	Iron, Total	mg/L	0.000064	0.0176	0.2	27.0	28.1	0.203	0.170 to 0.230	450	70.0 to 130	3.99	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09983	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.103	0.102	0.102	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09983	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.198	0.204	0.206	0.170 to 0.230	99.0	70.0 to 130	2.99	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09983	Magnesium, Total	mg/L	0.00180	0.0462	5.00	11.7	11.9	5.21	4.25 to 5.75	98.2	70.0 to 130	1.69	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09983	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.541	0.545	0.103	0.0850 to 0.115	104	70.0 to 130	0.737	20.0
BC09983	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00335	0.00348	0.00362	0.00340 to 0.00460	83.8	70.0 to 130	3.81	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09983	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.101	0.102	0.0965	0.0850 to 0.115	97.3	70.0 to 130	0.985	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09983	Potassium, Total	mg/L	-0.0109	0.367	10.0	12.6	12.6	10.5	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09983	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.107	0.106	0.105	0.0850 to 0.115	107	70.0 to 130	0.939	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09983	Silicon, Total	mg/L	0.00083	0.0440	1.00	8.26	8.42	1.04	0.850 to 1.15	114	70.0 to 130	1.92	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09983	Sodium, Total	mg/L	0.00067	0.0660	5.00	57.9	59.0	5.25	4.25 to 5.75	126	70.0 to 130	1.88	20.0
BC09983	Sulfate	mg/L	-0.231	2.0	20.0	66.4	66.7	18.9	18.0 to 22.0	77.0	80.0 to 120	0.451	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:55

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-13 Dup

Laboratory ID Number: BC09983

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09983	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.106	0.103	0.107	0.0850 to 0.115	106	70.0 to 130	2.87	20.0
BC09983	Total Organic Carbon	mg/L	0.303	1.00	10.0	33.9	34.2	10.2		105	80.0 to 120	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:55

Customer ID:

Delivery Date: 5/25/22 14:50

Description: Barry Ash Pond - MW-13 Dup

Laboratory ID Number: BC09983

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09983	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.19	0.161	2.01	1.80 to 2.20	110	90.0 to 110	0.00	15.0
BC10001	Solids, Dissolved	mg/L	0.0000	25.0			40.0	53.0	40.0 to 60.0			1.73	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 5/23/22 16:14
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09984

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 10:22		1.015	0.910	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 10:22		1.015	25.5	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:01		50.75	84.1	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 10:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 10:22		1.015	10.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:22		1	22.0	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 10:22		1.015	10.3	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 10:22		1.015	17.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 10:59		1.015	0.899	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 10:59		1.015	25.3	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:41		50.75	85.0	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 10:59		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 10:59		1.015	10.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 10:59		1	21.6	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 10:59		1.015	10.1	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 10:59		1.015	17.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 17:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 17:13		1.015	0.0211	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 17:13		1.015	0.0143	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 17:13		1.015	0.127	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 17:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 17:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 17:13		1.015	0.00133	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/22 11:30	6/1/22 17:13		1.015	0.00108	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 17:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 20:57		5.075	1.29	mg/L	0.000761	0.001015	
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:13		1.015	0.000361	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 17:13		1.015	1.28	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 5/23/22 16:14
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09984

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	0.0142	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	0.128	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	0.00139	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	0.00114	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	6/1/22 17:11		5.075	1.30	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	0.000389	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	1.29	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:36	5/26/22 13:36		1	0.579	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/2/22 11:04	6/2/22 15:20		1	213	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	292	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	213	mg/L			
Carbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 20:30	5/31/22 20:30		1	14.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 5/23/22 16:14
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09984

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:05	5/31/22 14:05		1	18.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:41	6/8/22 11:41		1	0.0857	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:36	6/7/22 13:36		1	9.46	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/23/22 16:12	5/23/22 16:12			495.93	uS/cm			FA
pH	5/23/22 16:12	5/23/22 16:12			6.24	SU			FA
Temperature	5/23/22 16:12	5/23/22 16:12			20.29	C			FA
Turbidity	5/23/22 16:12	5/23/22 16:12			1.58	NTU			FA
Sulfide	5/23/22 16:12	5/23/22 16:12			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 16:14

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BC09984

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09985	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09985	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09985	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC09993	Cadmium, Total	mg/L	0.000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 16:14

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BC09984

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 16:14

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BC09984

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/23/22 16:14
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BC09984

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09987	Alkalinity, Total as CaCO3	mg/L					34.9	51.7	45.0 to 55.0			4.39	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 5/23/22 17:20
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09985

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 10:25		1.015	0.0558	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 10:25		1.015	26.0	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 11:04		50.75	80.0	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 10:25		1.015	0.0269	mg/L	0.007105	0.01999956		
* Magnesium, Total	5/31/22 10:50	6/2/22 10:25		1.015	13.8	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:25		1	16.2	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 10:25		1.015	7.55	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 11:04		50.75	61.0	mg/L	1.5225	20.3		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:02		1.015	0.0560	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:02		1.015	26.6	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 11:44		50.75	71.7	mg/L	0.40600	2.03	RA	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:02		1.015	0.0248	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:02		1.015	13.7	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:02		1	15.8	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:02		1.015	7.40	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:44		50.75	57.8	mg/L	1.5225	20.3		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 17:16		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 17:16		1.015	0.0586	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 17:16		1.015	0.0142	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 17:16		1.015	0.0691	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 17:16		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 17:16		1.015	0.00474	mg/L	0.000203	0.001015		
* Cobalt, Total	6/1/22 11:30	6/1/22 17:16		1.015	0.00118	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 17:16		1.015	0.0000932	mg/L	0.000068	0.000203	J	
* Manganese, Total	6/1/22 11:30	6/1/22 17:16		1.015	0.625	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:16		1.015	0.00141	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 17:16		1.015	9.56	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 5/23/22 17:20
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09985

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	0.0149	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	0.0697	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	0.00255	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	0.00121	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	0.000107	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	0.621	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	0.00149	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	8.89	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:38	5/26/22 13:38		1	0.279	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/2/22 11:04	6/2/22 15:20		1	318	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	404	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	318	mg/L			
Carbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 20:49	5/31/22 20:49		1	28.6	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 5/23/22 17:20
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09985

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:19	5/31/22 14:19		4	25.1	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:42	6/8/22 11:42		1	0.0709	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:37	6/7/22 13:37		1	29.3	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/23/22 17:17	5/23/22 17:17			555.51	uS/cm			FA
pH	5/23/22 17:17	5/23/22 17:17			6.32	SU			FA
Temperature	5/23/22 17:17	5/23/22 17:17			21.18	C			FA
Turbidity	5/23/22 17:17	5/23/22 17:17			3.74	NTU			FA
Sulfide	5/23/22 17:17	5/23/22 17:17			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/23/22 17:20
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BC09985

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC09985	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.105	0.103	0.102	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09985	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.101	0.0984	0.0949	0.0850 to 0.115	101	70.0 to 130	2.61	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09985	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.118	0.117	0.104	0.0850 to 0.115	103	70.0 to 130	0.851	20.0
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09985	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.167	0.168	0.102	0.0850 to 0.115	97.3	70.0 to 130	0.597	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09985	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.108	0.103	0.100	0.0850 to 0.115	108	70.0 to 130	4.74	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09985	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.09	1.08	1.01	0.850 to 1.15	103	70.0 to 130	0.922	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09985	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.104	0.103	0.101	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC09993	Cadmium, Total	mg/L	0.000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09985	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	31.2	31.0	4.87	4.25 to 5.75	92.0	70.0 to 130	0.643	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09985	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.104	0.100	0.100	0.0850 to 0.115	101	70.0 to 130	3.92	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09985	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.107	0.104	0.104	0.0850 to 0.115	106	70.0 to 130	2.84	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09985	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	72.2	72.3	0.200	0.170 to 0.230	250	70.0 to 130	0.138	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 17:20

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BC09985

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09985	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.105	0.103	0.104	0.0850 to 0.115	105	70.0 to 130	1.92	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09985	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.234	0.233	0.205	0.170 to 0.230	105	70.0 to 130	0.428	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09985	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	18.8	18.6	5.09	4.25 to 5.75	102	70.0 to 130	1.07	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09985	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	0.716	0.708	0.103	0.0850 to 0.115	95.0	70.0 to 130	1.12	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09985	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.100	0.101	0.0992	0.0850 to 0.115	98.5	70.0 to 130	0.995	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09985	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	18.7	18.6	10.3	8.50 to 11.5	98.1	70.0 to 130	0.536	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09985	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.105	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09985	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	8.38	8.34	0.999	0.850 to 1.15	98.0	70.0 to 130	0.478	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09985	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	63.1	63.0	5.14	4.25 to 5.75	106	70.0 to 130	0.159	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09985	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.102	0.102	0.103	0.0850 to 0.115	102	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 17:20

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BC09985

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115		103	70.0 to 130		1.92	20.0
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85			93.3	80.0 to 120		1.45	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 17:20

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BC09985

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09987	Alkalinity, Total as CaCO3	mg/L					34.9	51.7	45.0 to 55.0			4.39	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 5/24/22 09:27
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09986

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 10:28		1.015	0.159	mg/L	0.030000	0.1015		
* Calcium, Total	5/31/22 10:50	6/2/22 10:28		1.015	18.6	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 11:08		50.75	13.4	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 10:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 10:28		1.015	3.82	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:28		1	19.0	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 10:28		1.015	8.90	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 10:28		1.015	11.4	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:16		1.015	0.165	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:16		1.015	19.2	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:13		50.75	13.0	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:16		1.015	3.91	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:16		1	18.9	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:16		1.015	8.84	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:16		1.015	11.7	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 17:20		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 17:20		1.015	0.0482	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 17:20		1.015	0.000993	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 17:20		1.015	0.0796	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 17:20		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 17:20		1.015	0.000423	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 17:20		1.015	0.00513	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 17:20		1.015	1.11	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:20		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 17:20		1.015	1.19	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 5/24/22 09:27
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09986

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	0.0155	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	0.00104	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	0.0819	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	0.000454	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	0.00546	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	1.16	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	1.17	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	0.000636	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 14:57		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:40	5/26/22 13:40		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/2/22 11:04	6/2/22 15:20		1	78.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	133	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	78.0	mg/L			
Carbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 21:10	5/31/22 21:10		1	3.99	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 5/24/22 09:27
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09986

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:07	5/31/22 14:07		1	10.4	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:43	6/8/22 11:43		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:38	6/7/22 13:38		1	34.7	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/24/22 09:24	5/24/22 09:24			206.31	uS/cm			FA
pH	5/24/22 09:24	5/24/22 09:24			5.80	SU			FA
Temperature	5/24/22 09:24	5/24/22 09:24			20.19	C			FA
Turbidity	5/24/22 09:24	5/24/22 09:24			1.65	NTU			FA
Sulfide	5/24/22 09:24	5/24/22 09:24			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:27

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BC09986

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC09993	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 09:27
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BC09986

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:27

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BC09986

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:27

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BC09986

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09987	Alkalinity, Total as CaCO3	mg/L					34.9	51.7	45.0 to 55.0			4.39	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09986	Solids, Dissolved	mg/L	1.00	25.0			130	49.0	40.0 to 60.0			2.28	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 5/24/22 10:57
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09987

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 10:30		1.015	0.0376	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 10:30		1.015	8.10	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:11		50.75	53.7	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 10:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 10:30		1.015	5.58	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:30		1	17.2	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 10:30		1.015	8.04	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:11		50.75	77.9	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:19		1.015	0.0350	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:19		1.015	8.26	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:17		50.75	47.7	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:19		1.015	5.55	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:19		1	16.7	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:19		1.015	7.79	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:17		50.75	77.9	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 17:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 17:23		1.015	0.0497	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 17:23		1.015	0.0333	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 17:23		1.015	0.156	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 17:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 17:23		1.015	0.000180	mg/L	0.000068	0.000203	J
* Chromium, Total	6/1/22 11:30	6/1/22 17:23		1.015	0.000234	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 17:23		1.015	0.0764	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 17:23		1.015	0.000111	mg/L	0.000068	0.000203	J
* Manganese, Total	6/1/22 11:30	6/1/22 17:23		1.015	1.13	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:23		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/1/22 11:30	6/1/22 17:23		1.015	3.25	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 5/24/22 10:57
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09987

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:23		1.015	0.000140	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	0.0255	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	0.159	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	0.000201	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	0.000207	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	0.0788	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	1.09	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	3.20	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:45		1.015	0.000140	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 15:00		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:42	5/26/22 13:42		1	0.255	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/2/22 11:04	6/2/22 15:20		1	33.4	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	348	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	33.4	mg/L			
Carbonate Alkalinity, (calc.)	6/2/22 11:04	6/2/22 15:20		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 21:30	5/31/22 21:30		1	1.37	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 5/24/22 10:57
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09987

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:21	5/31/22 14:21		20	191	mg/L	10.00	20	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:44	6/8/22 11:44		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:41	6/7/22 13:41		1	1.77	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/24/22 10:54	5/24/22 10:54			594.35	uS/cm			FA
pH	5/24/22 10:54	5/24/22 10:54			5.70	SU			FA
Temperature	5/24/22 10:54	5/24/22 10:54			21.14	C			FA
Turbidity	5/24/22 10:54	5/24/22 10:54			6.89	NTU			FA
Sulfide	5/24/22 10:54	5/24/22 10:54			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 10:57

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BC09987

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC09993	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 10:57
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BC09987

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 10:57

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BC09987

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 10:57

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BC09987

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09987	Alkalinity, Total as CaCO3	mg/L					34.9	51.7	45.0 to 55.0			4.39	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 5/24/22 13:10
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09988

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 10:33		1.015	0.0369	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 10:33		1.015	10.5	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 11:15		50.75	19.8	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 10:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 10:33		1.015	8.61	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:33		1	14.0	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 10:33		1.015	6.54	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 10:33		1.015	23.1	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:22		1.015	0.0371	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:22		1.015	10.9	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:20		50.75	18.4	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:22		1.015	8.61	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:22		1	14.0	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:22		1.015	6.52	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:22		1.015	22.9	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 17:27		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 17:27		1.015	0.00839	mg/L	0.006090	0.01015	J	
* Arsenic, Total	6/1/22 11:30	6/1/22 17:27		1.015	0.0197	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 17:27		1.015	0.0717	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 17:27		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 17:27		1.015	0.000584	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 17:27		1.015	0.0230	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 17:27		1.015	0.420	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:27		1.015	0.000178	mg/L	0.000102	0.000203	J	
* Potassium, Total	6/1/22 11:30	6/1/22 17:27		1.015	1.34	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 5/24/22 13:10
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09988

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	0.0195	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	0.0731	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	0.000340	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	0.0238	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	0.421	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	0.000223	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	1.28	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 15:02		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:44	5/26/22 13:44		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	124	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	148	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	124	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 21:48	5/31/22 21:48		1	5.15	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 5/24/22 13:10
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09988

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:10	5/31/22 14:10		1	13.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:46	6/8/22 11:46		1	0.0724	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:42	6/7/22 13:42		1	7.14	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/24/22 13:08	5/24/22 13:08			243.46	uS/cm			FA
pH	5/24/22 13:08	5/24/22 13:08			6.32	SU			FA
Temperature	5/24/22 13:08	5/24/22 13:08			21.47	C			FA
Turbidity	5/24/22 13:08	5/24/22 13:08			3.47	NTU			FA
Sulfide	5/24/22 13:08	5/24/22 13:08			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 13:10

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BC09988

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC09993	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 13:10
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BC09988

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 13:10

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BC09988

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 13:10

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BC09988

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7 Dup

Location Code: WMWBARAP
Collected: 5/24/22 13:10
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09989

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 10:36		1.015	0.0368	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 10:36		1.015	10.7	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 11:18		50.75	19.8	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 10:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 10:36		1.015	8.60	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:36		1	14.1	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 10:36		1.015	6.59	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 10:36		1.015	22.9	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:25		1.015	0.0366	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:25		1.015	10.9	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:24		50.75	18.1	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:25		1.015	8.66	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:25		1	13.8	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:25		1.015	6.47	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:25		1.015	22.9	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 17:30		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 17:30		1.015	0.00725	mg/L	0.006090	0.01015	J	
* Arsenic, Total	6/1/22 11:30	6/1/22 17:30		1.015	0.0192	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 17:30		1.015	0.0715	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 17:30		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 17:30		1.015	0.000587	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 17:30		1.015	0.0234	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 17:30		1.015	0.421	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:30		1.015	0.000181	mg/L	0.000102	0.000203	J	
* Potassium, Total	6/1/22 11:30	6/1/22 17:30		1.015	1.34	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7 Dup

Location Code: WMWBARAP
Collected: 5/24/22 13:10
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09989

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	0.0204	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	0.0721	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	0.000295	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	0.0237	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	0.421	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	0.000176	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	1.25	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 15:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:46	5/26/22 13:46		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	117	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	154	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	117	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 22:06	5/31/22 22:06		1	5.24	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7 Dup

Location Code: WMWBARAP
Collected: 5/24/22 13:10
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09989

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:11	5/31/22 14:11		1	12.9	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:47	6/8/22 11:47		1	0.0916	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:43	6/7/22 13:43		1	7.53	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/24/22 13:08	5/24/22 13:08			243.46	uS/cm			FA
pH	5/24/22 13:08	5/24/22 13:08			6.32	SU			FA
Temperature	5/24/22 13:08	5/24/22 13:08			21.47	C			FA
Turbidity	5/24/22 13:08	5/24/22 13:08			3.47	NTU			FA
Sulfide	5/24/22 13:08	5/24/22 13:08			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 13:10
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7 Dup

Laboratory ID Number: BC09989

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0	
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0	
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0	
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0	
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0	
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0	
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0	
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0	
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0	
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0	
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0	
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	
BC09993	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0	
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0	
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0	
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0	
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0	
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0	
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0	
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0	
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0	
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 13:10
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7 Dup

Laboratory ID Number: BC09989

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 13:10
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7 Dup

Laboratory ID Number: BC09989

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 13:10

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7 Dup

Laboratory ID Number: BC09989

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-3

Location Code: WMWBARAPFB
Collected: 5/24/22 14:05
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09990

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 10:39		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 10:39		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/31/22 10:50	6/2/22 10:39		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/31/22 10:50	6/2/22 10:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 10:39		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:39		1	Not Detected	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 10:39		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/31/22 10:50	6/2/22 10:39		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	6/1/22 11:30	6/1/22 17:34		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 15:07		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: CES								
* Nitrogen, Nitrate/Nitrite	5/26/22 13:47	5/26/22 13:47		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-3

Location Code: WMWBARAPFB

Collected: 5/24/22 14:05

Customer ID:

Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09990

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 22:27	5/31/22 22:27		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:18	5/31/22 14:18		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:48	6/8/22 11:48		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:44	6/7/22 13:44		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/24/22 14:05

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BC09990

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09993	Arsenic, Total	mg/L	0.0000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09993	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/24/22 14:05

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BC09990

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0		
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0		
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0		

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/24/22 14:05

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BC09990

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 5/24/22 14:14
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09991

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 10:42		1.015	0.165	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 10:42		1.015	8.84	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:21		50.75	19.3	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 10:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 10:42		1.015	4.88	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:42		1	18.6	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 10:42		1.015	8.68	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:21		50.75	76.8	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:28		1.015	0.162	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:28		1.015	7.22	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:27		50.75	17.0	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:28		1.015	4.68	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:28		1	17.3	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:28		1.015	8.07	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:27		50.75	76.8	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 17:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 17:38		1.015	0.0309	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 17:38		1.015	0.00218	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 17:38		1.015	0.0803	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 17:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 17:38		1.015	0.000226	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 17:38		1.015	0.000110	mg/L	0.000068	0.000203	J
* Lead, Total	6/1/22 11:30	6/1/22 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 17:38		1.015	0.245	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:38		1.015	0.000740	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 17:38		1.015	1.99	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 5/24/22 14:14
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09991

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	0.00212	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	0.0797	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	0.000317	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	0.000106	mg/L	0.000068	0.000203	J
* Lead, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	0.0000813	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	0.239	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	0.000705	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	1.96	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 16:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 15:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:49	5/26/22 13:49		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	160	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	5/27/22 11:00	6/2/22 15:15		1	228	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	160	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 22:45	5/31/22 22:45		1	4.26	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 5/24/22 14:14
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09991

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:22	5/31/22 14:22		10	40.4	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:49	6/8/22 11:49		1	0.0869	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:46	6/7/22 13:46		1	6.06	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/24/22 14:09	5/24/22 14:09			424.17	uS/cm			FA
pH	5/24/22 14:09	5/24/22 14:09			6.92	SU			FA
Temperature	5/24/22 14:09	5/24/22 14:09			22.25	C			FA
Turbidity	5/24/22 14:09	5/24/22 14:09			1.73	NTU			FA
Sulfide	5/24/22 14:09	5/24/22 14:09			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 14:14

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BC09991

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC09993	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 14:14

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BC09991

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 14:14

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BC09991

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 14:14

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BC09991

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09982	Solids, Dissolved	mg/L	0.0000	25.0			271	53.0	40.0 to 60.0			5.30	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 5/24/22 15:15
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09992

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 10:45		1.015	2.01	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 10:45		1.015	38.3	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:25		50.75	81.4	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 10:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 10:45		1.015	11.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:45		1	24.6	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 10:45		1.015	11.5	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 10:45		1.015	19.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:31		1.015	1.98	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:31		1.015	39.6	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:30		50.75	77.8	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:31		1.015	11.4	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:31		1	24.4	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:31		1.015	11.4	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 11:31		1.015	19.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 17:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 17:41		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	6/1/22 11:30	6/1/22 17:41		1.015	0.0404	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 17:41		1.015	0.117	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 17:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 17:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 17:41		1.015	0.000701	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 17:41		1.015	0.000695	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 17:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 21:01		5.075	2.16	mg/L	0.000761	0.001015	
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:41		1.015	0.000240	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 17:41		1.015	1.03	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 5/24/22 15:15
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09992

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	0.0414	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	0.122	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	0.000800	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	0.000753	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	6/1/22 17:15		5.075	2.12	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	0.000206	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	0.931	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 15:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:51	5/26/22 13:51		1	0.300	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	255	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	5/27/22 11:00	6/2/22 15:15		1	268	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	255	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 23:04	5/31/22 23:04		1	12.3	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 5/24/22 15:15
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09992

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:13	5/31/22 14:13		1	17.3	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:50	6/8/22 11:50		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:47	6/7/22 13:47		1	5.76	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/24/22 15:12	5/24/22 15:12			543.47	uS/cm			FA
pH	5/24/22 15:12	5/24/22 15:12			6.03	SU			FA
Temperature	5/24/22 15:12	5/24/22 15:12			22.35	C			FA
Turbidity	5/24/22 15:12	5/24/22 15:12			1.63	NTU			FA
Sulfide	5/24/22 15:12	5/24/22 15:12			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:15

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BC09992

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC09993	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:15

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BC09992

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:15

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BC09992

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 15:15
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BC09992

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC09982	Solids, Dissolved	mg/L	0.0000	25.0			271	53.0	40.0 to 60.0			5.30	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 5/24/22 16:24
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09993

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 10:48		1.015	0.376	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 10:48		1.015	7.03	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:28		50.75	25.5	mg/L	0.40600	2.03	RA
* Lithium, Total	5/31/22 10:50	6/2/22 10:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 10:48		1.015	3.56	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 10:48		1	14.3	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 10:48		1.015	6.68	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:28		50.75	174	mg/L	1.5225	20.3	RA
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:34		1.015	0.377	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:34		1.015	6.83	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:34		50.75	22.9	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:34		1.015	3.43	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:34		1	14.1	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:34		1.015	6.60	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:34		50.75	171	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 17:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 17:45		1.015	0.0154	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 17:45		1.015	0.00572	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 17:45		1.015	0.0670	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 17:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 17:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 17:45		1.015	0.000602	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 17:45		1.015	0.00327	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 17:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 17:45		1.015	0.349	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 17:45		1.015	0.00310	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 17:45		1.015	7.91	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 5/24/22 16:24
Customer ID:
Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09993

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 17:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 17:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	0.00532	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	0.0663	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	0.000605	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	0.00353	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	0.334	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	0.00275	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	6.52	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 11:40	6/6/22 15:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 13:53	5/26/22 13:53		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	171	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	5/27/22 11:00	6/2/22 15:15		1	508	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	171	mg/L		1	A
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	5/31/22 23:25	5/31/22 23:25		1	4.37	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP

Collected: 5/24/22 16:24

Customer ID:

Submittal Date: 5/25/22 14:54

Laboratory ID Number: BC09993

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:30	5/31/22 14:30		20	184	mg/L	10.00	20	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 11:52	6/8/22 11:52		1	0.291	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:48	6/7/22 13:48		1	13.6	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/24/22 16:21	5/24/22 16:21			969.26	uS/cm			FA
pH	5/24/22 16:21	5/24/22 16:21			6.71	SU			FA
Temperature	5/24/22 16:21	5/24/22 16:21			21.42	C			FA
Turbidity	5/24/22 16:21	5/24/22 16:21			1.07	NTU			FA
Sulfide	5/24/22 16:21	5/24/22 16:21			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 16:24

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BC09993

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC09993	Aluminum, Total	mg/L	0.000871	0.010	0.100	0.122	0.122	0.108	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC09993	Antimony, Total	mg/L	0.00026	0.00100	0.100	0.100	0.101	0.0925	0.0850 to 0.115	100	70.0 to 130	0.995	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC09993	Arsenic, Total	mg/L	0.000031	0.000176	0.100	0.109	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	1.85	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC09993	Barium, Total	mg/L	0.000	0.00100	0.100	0.169	0.169	0.0987	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC09993	Beryllium, Total	mg/L	0.0000087	0.000880	0.100	0.107	0.112	0.105	0.0850 to 0.115	107	70.0 to 130	4.57	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC09993	Boron, Total	mg/L	0.000087	0.0650	1.00	1.40	1.41	1.02	0.850 to 1.15	102	70.0 to 130	0.712	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC09993	Cadmium, Total	mg/L	0.0000062	0.000147	0.100	0.0990	0.100	0.100	0.0850 to 0.115	99.0	70.0 to 130	1.01	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC09993	Calcium, Total	mg/L	0.00617	0.152	5.00	11.7	11.8	4.91	4.25 to 5.75	93.4	70.0 to 130	0.851	20.0
BC09993	Chloride	mg/L	-0.137	1.00	200	391	388	10.3	9.00 to 11.0	104	80.0 to 120	0.770	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC09993	Chromium, Total	mg/L	-0.0000596	0.000440	0.100	0.101	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC09993	Cobalt, Total	mg/L	-0.000004	0.000147	0.100	0.105	0.103	0.101	0.0850 to 0.115	102	70.0 to 130	1.92	20.0
BC09993	Fluoride	mg/L	-0.0283	0.125	2.50	3.11	3.13	2.58	2.25 to 2.75	113	80.0 to 120	0.641	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 16:24

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BC09993

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC09993	Iron, Total	mg/L	0.000064	0.0176	0.2	25.2	26.1	0.203	0.170 to 0.230	-150	70.0 to 130	3.51	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC09993	Lead, Total	mg/L	0.0000003	0.000147	0.100	0.102	0.104	0.102	0.0850 to 0.115	102	70.0 to 130	1.94	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC09993	Lithium, Total	mg/L	0.00031	0.0154	0.200	0.212	0.211	0.206	0.170 to 0.230	106	70.0 to 130	0.473	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC09993	Magnesium, Total	mg/L	0.00180	0.0462	5.00	8.62	8.57	5.21	4.25 to 5.75	101	70.0 to 130	0.582	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC09993	Manganese, Total	mg/L	0.0000087	0.0002	0.100	0.451	0.444	0.103	0.0850 to 0.115	102	70.0 to 130	1.56	20.0
BC09993	Mercury, Total by CVAA	mg/L	2.750E-05	0.000500	0.004	0.00341	0.00338	0.00362	0.00340 to 0.00460	85.2	70.0 to 130	0.884	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC09993	Molybdenum, Total	mg/L	0.0000114	0.0002	0.100	0.102	0.100	0.0965	0.0850 to 0.115	98.9	70.0 to 130	1.98	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC09993	Potassium, Total	mg/L	-0.0109	0.367	10.0	17.9	17.7	10.5	8.50 to 11.5	99.9	70.0 to 130	1.12	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC09993	Selenium, Total	mg/L	0.000252	0.00100	0.100	0.105	0.104	0.105	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC09993	Silicon, Total	mg/L	0.00083	0.0440	1.00	7.62	7.60	1.04	0.850 to 1.15	94.0	70.0 to 130	0.263	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC09993	Sodium, Total	mg/L	0.00067	0.0660	5.00	176	180	5.25	4.25 to 5.75	40.0	70.0 to 130	2.25	20.0
BC09993	Sulfate	mg/L	-0.278	2.0	20.0	33.5	33.5	19.1	18.0 to 22.0	99.5	80.0 to 120	0.00	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 16:24

Customer ID:

Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BC09993

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC09993	Thallium, Total	mg/L	-0.0000006	0.000147	0.100	0.103	0.105	0.107	0.0850 to 0.115	103	70.0 to 130	1.92	20.0		
BC09993	Total Organic Carbon	mg/L	0.256	1.00	10.0	13.7	13.9	9.85		93.3	80.0 to 120	1.45	20.0		

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 16:24
Customer ID:
Delivery Date: 5/25/22 14:54

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BC09993

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC09993	Nitrogen, Nitrate/Nitrite	mg/L as N	0.05	0.200	2.00	2.12	0.146	1.97	1.80 to 2.20	106	90.0 to 110	0.00	15.0
BC10001	Solids, Dissolved	mg/L	0.0000	25.0			40.0	53.0	40.0 to 60.0			1.73	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 5/23/22 16:15
Customer ID:
Submittal Date: 5/25/22 14:56

Laboratory ID Number: BC09994

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:08		1.015	0.0626	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 11:08		1.015	20.6	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:47		50.75	74.0	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 11:08		1.015	15.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:08		1	16.0	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:08		1.015	7.48	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:47		50.75	44.8	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:37		1.015	0.0653	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:37		1.015	20.8	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:37		50.75	70.0	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:37		1.015	15.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:37		1	15.8	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:37		1.015	7.38	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:37		50.75	44.2	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 18:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 18:13		1.015	0.190	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 18:13		1.015	0.0245	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 18:13		1.015	0.0802	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 18:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 18:13		1.015	0.00374	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/22 11:30	6/1/22 18:13		1.015	0.00428	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 18:13		1.015	0.000179	mg/L	0.000068	0.000203	J
* Manganese, Total	6/1/22 11:30	6/1/22 18:13		1.015	0.849	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:13		1.015	0.00109	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 18:13		1.015	2.76	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 5/23/22 16:15
Customer ID:
Submittal Date: 5/25/22 14:56

Laboratory ID Number: BC09994

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	0.0249	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	0.0787	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	0.00290	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	0.00414	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	0.825	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	0.000899	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	2.60	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 14:44	5/26/22 14:44		1	0.212	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/3/22 12:00	6/3/22 13:44		1	274	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	345	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	274	mg/L			
Carbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/1/22 00:56	6/1/22 00:56		1	20.1	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 5/23/22 16:15
Customer ID:
Submittal Date: 5/25/22 14:56

Laboratory ID Number: BC09994

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:00	5/31/22 15:00		3	26.2	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:03	6/8/22 12:03		1	0.0873	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 13:59	6/7/22 13:59		1	13.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/23/22 16:12	5/23/22 16:12			578.36	uS/cm			FA
pH	5/23/22 16:12	5/23/22 16:12			6.12	SU			FA
Temperature	5/23/22 16:12	5/23/22 16:12			20.85	C			FA
Turbidity	5/23/22 16:12	5/23/22 16:12			2.67	NTU			FA
Sulfide	5/23/22 16:12	5/23/22 16:12			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 16:15

Customer ID:

Delivery Date: 5/25/22 14:56

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BC09994

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC10112	Arsenic, Total	mg/L	0.000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC10112	Barium, Total	mg/L	0.000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 16:15

Customer ID:

Delivery Date: 5/25/22 14:56

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BC09994

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/23/22 16:15
Customer ID:
Delivery Date: 5/25/22 14:56

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BC09994

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10001	Total Organic Carbon	mg/L	0.234	1.00	10.0	10.3	10.2	9.74		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 16:15

Customer ID:

Delivery Date: 5/25/22 14:56

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BC09994

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10005	Alkalinity, Total as CaCO3	mg/L					327	51.3	45.0 to 55.0			8.49	10.0
BC10001	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.18	0.074	2.04	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 5/23/22 17:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09995

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:11		1.015	0.0765	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 11:11		1.015	20.6	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:50		50.75	86.6	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 11:11		1.015	14.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:11		1	14.1	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:11		1.015	6.58	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:50		50.75	42.0	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:39		1.015	0.0799	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:39		1.015	20.6	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:41		50.75	85.6	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:39		1.015	15.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:39		1	13.9	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:39		1.015	6.51	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:41		50.75	42.6	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 18:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 18:17		1.015	0.00923	mg/L	0.006090	0.01015	J
* Arsenic, Total	6/1/22 11:30	6/1/22 18:17		1.015	0.0257	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 18:17		1.015	0.103	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 18:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 18:17		1.015	0.000813	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 18:17		1.015	0.00255	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 21:15		5.075	1.18	mg/L	0.000761	0.001015	
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:17		1.015	0.00123	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 18:17		1.015	2.57	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 5/23/22 17:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09995

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	0.0257	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	0.101	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	0.000905	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	0.00263	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	1.27	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	0.00112	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	2.47	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:15		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 14:45	5/26/22 14:45		1	0.259	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/3/22 12:00	6/3/22 13:44		1	295	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	352	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	295	mg/L			
Carbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/1/22 01:14	6/1/22 01:14		1	15.0	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 5/23/22 17:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09995

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:01	5/31/22 15:01		3	25.6	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:05	6/8/22 12:05		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:01	6/7/22 14:01		1	6.64	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/23/22 17:02	5/23/22 17:02			616.65	uS/cm			FA
pH	5/23/22 17:02	5/23/22 17:02			6.22	SU			FA
Temperature	5/23/22 17:02	5/23/22 17:02			20.70	C			FA
Turbidity	5/23/22 17:02	5/23/22 17:02			1.04	NTU			FA
Sulfide	5/23/22 17:02	5/23/22 17:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/23/22 17:05
Customer ID:
Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BC09995

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC10112	Arsenic, Total	mg/L	0.000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC10112	Barium, Total	mg/L	0.000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 17:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BC09995

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 17:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BC09995

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10001	Total Organic Carbon	mg/L	0.234	1.00	10.0	10.3	10.2	9.74		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/23/22 17:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BC09995

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10005	Alkalinity, Total as CaCO3	mg/L					327	51.3	45.0 to 55.0			8.49	10.0
BC10001	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.18	0.074	2.04	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 5/24/22 09:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09996

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:14		1.015	0.0977	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 11:14		1.015	14.4	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:53		50.75	80.5	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 11:14		1.015	8.64	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:14		1	13.7	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:14		1.015	6.41	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:53		50.75	44.4	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 11:42		1.015	0.0955	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 11:42		1.015	14.5	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:44		50.75	79.9	mg/L	0.40600	2.03	RA
* Lithium, Dissolved	5/27/22 09:45	6/1/22 11:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 11:42		1.015	8.66	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 11:42		1	13.6	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 11:42		1.015	6.36	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:44		50.75	45.3	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 18:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 18:20		1.015	0.0357	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 18:20		1.015	0.0188	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 18:20		1.015	0.0906	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 18:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 18:20		1.015	0.000464	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 18:20		1.015	0.0264	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 21:04		5.075	1.92	mg/L	0.000761	0.001015	
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:20		1.015	0.00164	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 18:20		1.015	2.29	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 5/24/22 09:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09996

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	0.0193	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	0.0918	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	0.000526	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	0.0269	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	6/1/22 17:18		5.075	1.95	mg/L	0.000761	0.001015	RA
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	0.00175	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	2.18	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 14:47	5/26/22 14:47		1	0.216	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/3/22 12:00	6/3/22 13:44		1	208	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	296	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	208	mg/L			
Carbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/1/22 01:32	6/1/22 01:32		1	8.66	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 5/24/22 09:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09996

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:03	5/31/22 15:03		3	35.4	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:06	6/8/22 12:06		1	0.0811	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:02	6/7/22 14:02		1	3.79	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/22 09:02	5/24/22 09:02			549.97	uS/cm			FA
pH	5/24/22 09:02	5/24/22 09:02			6.28	SU			FA
Temperature	5/24/22 09:02	5/24/22 09:02			20.55	C			FA
Turbidity	5/24/22 09:02	5/24/22 09:02			1.01	NTU			FA
Sulfide	5/24/22 09:02	5/24/22 09:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 09:05
Customer ID:
Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BC09996

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC09996	Aluminum, Dissolved	mg/L	-0.000138	0.010	0.100	0.100	0.102	0.102	0.102	0.0850 to 0.115	100	70.0 to 130	1.98	20.0
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0
BC09996	Antimony, Dissolved	mg/L	0.000277	0.00100	0.100	0.0992	0.100	0.0949	0.0949	0.0850 to 0.115	99.2	70.0 to 130	0.803	20.0
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BC09996	Arsenic, Dissolved	mg/L	0.000064	0.000176	0.100	0.124	0.119	0.104	0.104	0.0850 to 0.115	105	70.0 to 130	4.12	20.0
BC10112	Arsenic, Total	mg/L	0.000029	0.000176	0.100	0.122	0.121	0.101	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BC09996	Barium, Dissolved	mg/L	-0.000236	0.00100	0.100	0.189	0.186	0.102	0.102	0.0850 to 0.115	97.2	70.0 to 130	1.60	20.0
BC10112	Barium, Total	mg/L	0.000218	0.00100	0.100	0.172	0.171	0.0996	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0
BC09996	Beryllium, Dissolved	mg/L	0.0000551	0.000880	0.100	0.115	0.106	0.100	0.100	0.0850 to 0.115	115	70.0 to 130	8.14	20.0
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC09996	Boron, Dissolved	mg/L	-0.000095	0.0650	1.00	1.12	1.12	1.01	1.01	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0
BC09996	Cadmium, Dissolved	mg/L	0.0000098	0.000147	0.100	0.102	0.101	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BC09996	Calcium, Dissolved	mg/L	0.000404	0.152	5.00	19.3	19.2	4.87	4.87	4.25 to 5.75	96.0	70.0 to 130	0.519	20.0
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0
BC09996	Chromium, Dissolved	mg/L	0.0000501	0.000440	0.100	0.0986	0.0997	0.100	0.100	0.0850 to 0.115	98.1	70.0 to 130	1.11	20.0
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Cobalt, Dissolved	mg/L	0.0000055	0.000147	0.100	0.128	0.132	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	3.08	20.0
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0
BC09996	Iron, Dissolved	mg/L	0.000012	0.0176	0.2	79.1	79.2	0.200	0.200	0.170 to 0.230	-400	70.0 to 130	0.126	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BC09996

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC09996	Lead, Dissolved	mg/L	0.0000046	0.000147	0.100	0.102	0.103	0.104	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC09996	Lithium, Dissolved	mg/L	0.000152	0.0154	0.200	0.206	0.206	0.205	0.170 to 0.230	103	70.0 to 130	0.00	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC09996	Magnesium, Dissolved	mg/L	0.00610	0.0462	5.00	13.7	13.7	5.09	4.25 to 5.75	101	70.0 to 130	0.00	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC09996	Manganese, Dissolved	mg/L	-0.0000021	0.0002	0.100	2.10	2.03	0.103	0.0850 to 0.115	150	70.0 to 130	3.39	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC09996	Molybdenum, Dissolved	mg/L	-0.0000176	0.0002	0.100	0.103	0.102	0.0992	0.0850 to 0.115	101	70.0 to 130	0.976	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC09996	Potassium, Dissolved	mg/L	-0.0103	0.367	10.0	11.9	12.1	10.3	8.50 to 11.5	97.2	70.0 to 130	1.67	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC09996	Selenium, Dissolved	mg/L	0.0000409	0.00100	0.100	0.104	0.105	0.106	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC09996	Silicon, Dissolved	mg/L	-0.000431	0.0440	1.00	7.33	7.33	0.999	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC09996	Sodium, Dissolved	mg/L	0.00315	0.0660	5.00	49.6	49.7	5.14	4.25 to 5.75	86.0	70.0 to 130	0.201	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC09996	Thallium, Dissolved	mg/L	0.0000031	0.000147	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BC09996

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10001	Total Organic Carbon	mg/L	0.234	1.00	10.0	10.3	10.2	9.74		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BC09996

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10005	Alkalinity, Total as CaCO3	mg/L					327	51.3	45.0 to 55.0			8.49	10.0
BC10001	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.18	0.074	2.04	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V Dup

Location Code: WMWBARAP
Collected: 5/24/22 09:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09997

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:17		1.015	0.0951	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 11:17		1.015	14.4	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 11:57		50.75	82.2	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 11:17		1.015	8.65	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:17		1	13.6	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:17		1.015	6.35	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:57		50.75	44.8	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:03		1.015	0.0950	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:03		1.015	14.6	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:03		50.75	83.3	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:03		1.015	8.67	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:03		1	13.5	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:03		1.015	6.33	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:03		50.75	47.6	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 18:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 18:24		1.015	0.0306	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 18:24		1.015	0.0186	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 18:24		1.015	0.0907	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 18:24		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 18:24		1.015	0.000530	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 18:24		1.015	0.0268	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 21:08		5.075	1.92	mg/L	0.000761	0.001015	
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:24		1.015	0.00161	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 18:24		1.015	2.34	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V Dup

Location Code: WMWBARAP
Collected: 5/24/22 09:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09997

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:24		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:24		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	0.0190	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	0.0932	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	0.000487	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	0.0276	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	6/1/22 17:29		5.075	2.00	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	0.00150	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	2.25	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:44		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 14:49	5/26/22 14:49		1	0.280	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/3/22 12:00	6/3/22 13:44		1	244	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	303	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	244	mg/L			
Carbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/1/22 01:50	6/1/22 01:50		1	8.63	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V Dup

Location Code: WMWBARAP
Collected: 5/24/22 09:05
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09997

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:04	5/31/22 15:04		3	37.5	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:07	6/8/22 12:07		1	0.0852	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:03	6/7/22 14:03		1	3.66	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/22 09:02	5/24/22 09:02			549.97	uS/cm			FA
pH	5/24/22 09:02	5/24/22 09:02			6.28	SU			FA
Temperature	5/24/22 09:02	5/24/22 09:02			20.55	C			FA
Turbidity	5/24/22 09:02	5/24/22 09:02			1.01	NTU			FA
Sulfide	5/24/22 09:02	5/24/22 09:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-20V Dup

Laboratory ID Number: BC09997

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BC10112	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0
BC10112	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-20V Dup

Laboratory ID Number: BC09997

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 09:05
Customer ID:
Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-20V Dup

Laboratory ID Number: BC09997

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10001	Total Organic Carbon	mg/L	0.234	1.00	10.0	10.3	10.2	9.74		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 09:05

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-20V Dup

Laboratory ID Number: BC09997

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10005	Alkalinity, Total as CaCO3	mg/L					327	51.3	45.0 to 55.0			8.49	10.0
BC10001	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.18	0.074	2.04	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 5/24/22 10:33
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09998

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:20		1.015	0.351	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 11:20		1.015	17.9	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:00		50.75	113	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 11:20		1.015	16.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:20		1	23.8	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:20		1.015	11.1	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 12:00		50.75	71.9	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:06		1.015	0.347	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:06		1.015	17.5	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:06		50.75	111	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:06		1.015	16.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:06		1	23.8	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:06		1.015	11.1	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:06		50.75	73.7	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 18:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 18:27		1.015	0.0262	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 18:27		1.015	0.0718	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 18:27		1.015	0.245	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 18:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 18:27		1.015	0.000809	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 18:27		1.015	0.00571	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 18:27		1.015	0.220	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:27		1.015	0.000923	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 18:27		1.015	2.55	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 5/24/22 10:33
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09998

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	0.0712	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	0.246	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	0.000881	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	0.00570	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	0.217	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	0.00118	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	2.42	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 14:51	5/26/22 14:51		1	0.287	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/3/22 12:00	6/3/22 13:44		1	334	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	486	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	334	mg/L			
Carbonate Alkalinity, (calc.)	6/3/22 12:00	6/3/22 13:44		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/1/22 02:09	6/1/22 02:09		1	25.8	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 5/24/22 10:33
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09998

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:05	5/31/22 15:05		4	50.8	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:08	6/8/22 12:08		1	0.135	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:04	6/7/22 14:04		1	24.3	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/22 10:29	5/24/22 10:29			792.50	uS/cm			FA
pH	5/24/22 10:29	5/24/22 10:29			6.22	SU			FA
Temperature	5/24/22 10:29	5/24/22 10:29			21.70	C			FA
Turbidity	5/24/22 10:29	5/24/22 10:29			2.5	NTU			FA
Sulfide	5/24/22 10:29	5/24/22 10:29			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 10:33
Customer ID:
Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BC09998

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BC10112	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0
BC10112	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 10:33
Customer ID:
Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BC09998

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 10:33
Customer ID:
Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BC09998

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10001	Total Organic Carbon	mg/L	0.234	1.00	10.0	10.3	10.2	9.74		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 10:33

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BC09998

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10005	Alkalinity, Total as CaCO3	mg/L					327	51.3	45.0 to 55.0			8.49	10.0
BC10001	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.18	0.074	2.04	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 5/24/22 12:58
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09999

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 11:23		1.015	2.08	mg/L	0.030000	0.1015		
* Calcium, Total	5/31/22 10:50	6/2/22 12:03		50.75	43.9	mg/L	3.50175	20.3		
* Iron, Total	5/31/22 10:50	6/2/22 12:03		50.75	155	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 11:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 11:23		1.015	13.1	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:23		1	23.3	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 11:23		1.015	10.9	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 11:23		1.015	24.4	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:08		1.015	2.07	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/27/22 09:45	6/1/22 13:10		50.75	44.3	mg/L	3.50175	20.3		
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:10		50.75	150	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:08		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:08		1.015	13.0	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:08		1	23.1	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:08		1.015	10.8	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:08		1.015	24.2	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 18:31		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 18:31		1.015	0.0257	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 18:31		1.015	0.0767	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 18:31		1.015	0.343	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 18:31		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 18:31		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 18:31		1.015	0.00238	mg/L	0.000203	0.001015		
* Cobalt, Total	6/1/22 11:30	6/1/22 18:31		1.015	0.000914	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 18:31		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 18:31		1.015	0.946	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:31		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 18:31		1.015	2.25	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 5/24/22 12:58
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09999

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:31		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:31		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	0.00828	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	0.0779	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	0.328	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	0.00250	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	0.00109	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	0.966	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	2.20	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 14:53	5/26/22 14:53		1	0.331	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	371	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/25/22 16:30	5/31/22 13:58		1	464	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	371	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/1/22 02:28	6/1/22 02:28		1	15.6	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP

Collected: 5/24/22 12:58

Customer ID:

Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC09999

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:06	5/31/22 15:06		3	27.6	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:09	6/8/22 12:09		1	0.0801	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:05	6/7/22 14:05		1	8.45	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/22 12:55	5/24/22 12:55			758.26	uS/cm			FA
pH	5/24/22 12:55	5/24/22 12:55			5.44	SU			FA
Temperature	5/24/22 12:55	5/24/22 12:55			21.65	C			FA
Turbidity	5/24/22 12:55	5/24/22 12:55			2.83	NTU			FA
Sulfide	5/24/22 12:55	5/24/22 12:55			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 12:58

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BC09999

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0	
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0	
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0	
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0	
BC10112	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0	
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0	
BC10112	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0	
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0	
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0	
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0	
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0	
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0	
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0	
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0	
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0	
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0	
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0	
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0	
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0	
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 12:58

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BC09999

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 12:58

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BC09999

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10001	Total Organic Carbon	mg/L	0.234	1.00	10.0	10.3	10.2	9.74		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 12:58

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BC09999

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC10001	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.18	0.074	2.04	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BC09999	Solids, Dissolved	mg/L	1.00	25.0			468	49.0	40.0 to 60.0			0.858	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 5/24/22 15:15
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC10000

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 11:26		1.015	0.0333	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 11:26		1.015	3.55	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 11:26		1.015	0.646	mg/L	0.008120	0.0406		
* Lithium, Total	5/31/22 10:50	6/2/22 11:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 11:26		1.015	2.25	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:26		1	15.2	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 11:26		1.015	7.08	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:07		50.75	65.4	mg/L	1.5225	20.3		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:11		1.015	0.0337	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:11		1.015	3.65	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:11		1.015	0.659	mg/L	0.008120	0.0406		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:11		1.015	2.26	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:11		1	15.2	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:11		1.015	7.08	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:13		50.75	65.8	mg/L	1.5225	20.3		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 18:35		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 18:35		1.015	0.0214	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 18:35		1.015	0.000793	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 18:35		1.015	0.0863	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 18:35		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 18:35		1.015	0.000381	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 18:35		1.015	0.00765	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 18:35		1.015	0.178	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:35		1.015	0.000108	mg/L	0.000102	0.000203	J	
* Potassium, Total	6/1/22 11:30	6/1/22 18:35		1.015	2.47	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 5/24/22 15:15
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC10000

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	0.0123	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	0.000696	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	0.0886	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	0.000384	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	0.00779	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	0.178	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	2.37	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 14:54	5/26/22 14:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	21.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	5/27/22 11:00	6/2/22 15:15		1	176	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	21.8	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/1/22 02:47	6/1/22 02:47		1	1.04	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 5/24/22 15:15
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC10000

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:07	5/31/22 15:07		10	95.1	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:11	6/8/22 12:11		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:07	6/7/22 14:07		1	21.1	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/22 15:12	5/24/22 15:12			375.09	uS/cm			FA
pH	5/24/22 15:12	5/24/22 15:12			4.90	SU			FA
Temperature	5/24/22 15:12	5/24/22 15:12			22.07	C			FA
Turbidity	5/24/22 15:12	5/24/22 15:12			0.51	NTU			FA
Sulfide	5/24/22 15:12	5/24/22 15:12			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:15

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BC10000

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0	
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0	
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0	
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0	
BC10112	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0	
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0	
BC10112	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0	
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0	
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0	
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0	
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0	
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0	
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0	
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0	
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0	
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0	
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0	
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0	
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0	
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:15

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BC10000

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:15

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BC10000

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10001	Total Organic Carbon	mg/L	0.234	1.00	10.0	10.3	10.2	9.74		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 15:15

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BC10000

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC10001	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.18	0.074	2.04	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BC09982	Solids, Dissolved	mg/L	0.0000	25.0			271	53.0	40.0 to 60.0			5.30	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 5/24/22 16:58
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC10001

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 11:29		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 11:29		1.015	2.45	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 11:29		1.015	0.305	mg/L	0.008120	0.0406		
* Lithium, Total	5/31/22 10:50	6/2/22 11:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 11:29		1.015	1.62	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:29		1	16.4	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 11:29		1.015	7.65	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 11:29		1.015	4.38	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:14		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:14		1.015	2.45	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:14		1.015	0.303	mg/L	0.008120	0.0406		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:14		1.015	1.65	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:14		1	16.3	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:14		1.015	7.60	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:14		1.015	4.58	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 18:38		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 18:38		1.015	0.0125	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 18:38		1.015	0.00115	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 18:38		1.015	0.0248	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 18:38		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 18:38		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 18:38		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	6/1/22 11:30	6/1/22 18:38		1.015	0.00582	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 18:38		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 18:38		1.015	0.272	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:38		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 18:38		1.015	0.969	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 5/24/22 16:58
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC10001

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	0.00114	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	0.0251	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	0.000233	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	0.00621	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	0.277	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	0.945	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 17:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: CES							
* Nitrogen, Nitrate/Nitrite	5/26/22 14:54	5/26/22 14:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/6/22 13:15	6/6/22 15:32		1	12.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: JS							
* Solids, Dissolved	5/27/22 11:00	6/2/22 15:15		1	40.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	12.0	mg/L			
Carbonate Alkalinity, (calc.)	6/6/22 13:15	6/6/22 15:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/1/22 03:09	6/1/22 03:09		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 5/24/22 16:58
Customer ID:
Submittal Date: 5/25/22 14:57

Laboratory ID Number: BC10001

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 14:54	5/31/22 14:54		1	9.21	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:12	6/8/22 12:12		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:08	6/7/22 14:08		1	0.615	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/24/22 16:55	5/24/22 16:55			53.16	uS/cm			FA
pH	5/24/22 16:55	5/24/22 16:55			4.78	SU			FA
Temperature	5/24/22 16:55	5/24/22 16:55			22.12	C			FA
Turbidity	5/24/22 16:55	5/24/22 16:55			0.78	NTU			FA
Sulfide	5/24/22 16:55	5/24/22 16:55			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 16:58

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BC10001

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BC10112	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0
BC10112	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/24/22 16:58
Customer ID:
Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BC10001

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 16:58

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BC10001

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10001	Total Organic Carbon	mg/L	0.234	1.00	10.0	10.3	10.2	9.74		103	80.0 to 120	0.976	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/24/22 16:58

Customer ID:

Delivery Date: 5/25/22 14:57

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BC10001

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10001	Alkalinity, Total as CaCO3	mg/L					12.4	53.2	45.0 to 55.0			3.28	10.0
BC10001	Nitrogen, Nitrate/Nitrite	mg/L as N	0.07	0.200	2.00	2.18	0.074	2.04	1.80 to 2.20	109	90.0 to 110	0.00	15.0
BC10001	Solids, Dissolved	mg/L	0.0000	25.0			40.0	53.0	40.0 to 60.0			1.73	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 5/25/22 10:52
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10111

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:31		1.015	0.0852	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 11:31		1.015	12.0	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:10		50.75	50.7	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:31		1.015	0.0318	mg/L	0.007105	0.01999956	
* Magnesium, Total	5/31/22 10:50	6/2/22 11:31		1.015	6.72	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:31		1	14.5	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:31		1.015	6.78	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 12:10		50.75	72.6	mg/L	1.5225	20.3	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:17		1.015	0.0867	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:17		1.015	11.9	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:17		50.75	49.8	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:17		1.015	0.0321	mg/L	0.007105	0.01999956	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:17		1.015	6.74	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:17		1	14.6	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:17		1.015	6.82	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:17		50.75	75.0	mg/L	1.5225	20.3	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 18:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 18:42		1.015	0.0133	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 18:42		1.015	0.0102	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 18:42		1.015	0.0888	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 18:42		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 18:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 18:42		1.015	0.00488	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/22 11:30	6/1/22 18:42		1.015	0.00119	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 18:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 18:42		1.015	0.794	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:42		1.015	0.000796	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 18:42		1.015	9.48	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 5/25/22 10:52
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10111

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	0.00726	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	0.0106	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	0.0852	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	0.00379	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	0.00127	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	0.790	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	0.000703	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	9.09	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:37	5/31/22 09:37		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 08:59	6/8/22 10:23		1	174	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	343	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	174	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 16:30	6/7/22 16:30		1	20.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 5/25/22 10:52
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10111

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:09	5/31/22 15:09		10	59.3	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:13	6/8/22 12:13		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:25	6/7/22 14:25		4	122	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/25/22 10:50	5/25/22 10:50			561.68	uS/cm			FA
pH	5/25/22 10:50	5/25/22 10:50			6.30	SU			FA
Temperature	5/25/22 10:50	5/25/22 10:50			20.80	C			FA
Turbidity	5/25/22 10:50	5/25/22 10:50			2.04	NTU			FA
Sulfide	5/25/22 10:50	5/25/22 10:50			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:52

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BC10111

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BC10112	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0
BC10112	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:52

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BC10111

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:52

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BC10111

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:52

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BC10111

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC10124	Alkalinity, Total as CaCO3	mg/L					8.28	52.0	45.0 to 55.0			2.94	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10116	Solids, Dissolved	mg/L	1.00	25.0			299	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 5/25/22 11:55
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10112

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 11:34		1.015	0.0618	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 11:34		1.015	11.4	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 12:14		50.75	35.3	mg/L	0.40600	2.03	RA	
* Lithium, Total	5/31/22 10:50	6/2/22 11:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 11:34		1.015	6.72	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:34		1	20.1	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 11:34		1.015	9.37	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:14		50.75	80.4	mg/L	1.5225	20.3		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:20		1.015	0.0649	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:20		1.015	11.0	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:20		50.75	34.2	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:20		1.015	6.70	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:20		1	19.6	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:20		1.015	9.14	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:20		50.75	81.2	mg/L	1.5225	20.3		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 18:45		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 18:45		1.015	0.195	mg/L	0.006090	0.01015	R	
* Arsenic, Total	6/1/22 11:30	6/1/22 18:45		1.015	0.0183	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 18:45		1.015	0.0693	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 18:45		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 18:45		1.015	0.00345	mg/L	0.000203	0.001015		
* Cobalt, Total	6/1/22 11:30	6/1/22 18:45		1.015	0.00125	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 18:45		1.015	0.000102	mg/L	0.000068	0.000203	J	
* Manganese, Total	6/1/22 11:30	6/1/22 18:45		1.015	0.316	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 18:45		1.015	0.000518	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 18:45		1.015	2.54	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 5/25/22 11:55
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10112

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 18:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	0.0102	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	0.0186	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	0.0692	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	0.00315	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	0.00117	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	0.314	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	0.000508	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	2.46	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 10:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:39	5/31/22 09:39		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 08:59	6/8/22 10:23		1	196	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	328	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	196	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 16:49	6/7/22 16:49		1	17.0	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 5/25/22 11:55
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10112

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:10	5/31/22 15:10		10	45.3	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:14	6/8/22 12:14		1	0.0733	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:26	6/7/22 14:26		8	105	mg/L	4.8	16	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/25/22 11:53	5/25/22 11:53			512.57	uS/cm			FA
pH	5/25/22 11:53	5/25/22 11:53			6.14	SU			FA
Temperature	5/25/22 11:53	5/25/22 11:53			20.59	C			FA
Turbidity	5/25/22 11:53	5/25/22 11:53			3.06	NTU			FA
Sulfide	5/25/22 11:53	5/25/22 11:53			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:55

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BC10112

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC10112	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.320	0.329	0.109	0.0850 to 0.115	125	70.0 to 130	2.77	20.0
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC10112	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.100	0.0991	0.0923	0.0850 to 0.115	100	70.0 to 130	0.904	20.0
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BC10112	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.122	0.121	0.101	0.0850 to 0.115	104	70.0 to 130	0.823	20.0
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0
BC10112	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.172	0.171	0.0996	0.0850 to 0.115	103	70.0 to 130	0.583	20.0
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC10112	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.103	0.105	0.100	0.0850 to 0.115	103	70.0 to 130	1.92	20.0
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC10112	Boron, Total	mg/L	0.000059	0.0650	1.00	1.12	1.08	1.03	0.850 to 1.15	106	70.0 to 130	3.64	20.0
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10112	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0993	0.0990	0.0989	0.0850 to 0.115	99.3	70.0 to 130	0.303	20.0
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0
BC10112	Calcium, Total	mg/L	0.00326	0.152	5.00	16.4	16.3	4.95	4.25 to 5.75	100	70.0 to 130	0.612	20.0
BC10112	Chloride	mg/L	-0.0683	1.00	100	142	153	9.80	9.00 to 11.0	96.7	80.0 to 120	7.46	20.0
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC10112	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.105	0.105	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0
BC10112	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.103	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10112	Fluoride	mg/L	-0.0308	0.125	2.50	2.75	2.76	2.56	2.25 to 2.75	107	80.0 to 120	0.363	20.0
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:55

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BC10112

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10112	Iron, Total	mg/L	0.00011	0.0176	0.2	35.5	35.6	0.200	0.170 to 0.230	100	70.0 to 130	0.281	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10112	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.102	0.101	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10112	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.201	0.193	0.201	0.170 to 0.230	100	70.0 to 130	4.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10112	Magnesium, Total	mg/L	0.00638	0.0462	5.00	11.8	11.6	5.20	4.25 to 5.75	102	70.0 to 130	1.71	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10112	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.420	0.426	0.103	0.0850 to 0.115	104	70.0 to 130	1.42	20.0
BC10112	Mercury, Total by CVAA	mg/L	0.000122	0.000500	0.004	0.00317	0.00332	0.00405	0.00340 to 0.00460	79.2	70.0 to 130	4.62	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10112	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0983	0.0974	0.0973	0.0850 to 0.115	97.8	70.0 to 130	0.920	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10112	Potassium, Total	mg/L	-0.0105	0.367	10.0	12.6	12.6	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10112	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10112	Silicon, Total	mg/L	0.000146	0.0440	1.00	10.5	10.4	1.02	0.850 to 1.15	113	70.0 to 130	0.957	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10112	Sodium, Total	mg/L	0.0212	0.0660	5.00	84.7	84.8	5.05	4.25 to 5.75	86.0	70.0 to 130	0.118	20.0
BC10112	Sulfate	mg/L	-0.192	2.0	160	251	253	18.8	18.0 to 22.0	91.2	80.0 to 120	0.794	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:55

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BC10112

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC10112	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.104	0.103	0.103	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:55

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BC10112

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC10124	Alkalinity, Total as CaCO3	mg/L					8.28	52.0	45.0 to 55.0			2.94	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10116	Solids, Dissolved	mg/L	1.00	25.0			299	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 5/25/22 13:07
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10113

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:49		1.015	0.0826	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 11:49		1.015	6.41	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:35		50.75	105	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:49		1.015	0.0118	mg/L	0.007105	0.01999956	J
* Magnesium, Total	5/31/22 10:50	6/2/22 13:17		1.015	5.31	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:49		1	12.9	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:49		1.015	6.03	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:49		1.015	36.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:23		1.015	0.0766	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:23		1.015	6.05	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:23		50.75	103	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:23		1.015	0.00893	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:23		1.015	5.16	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:23		1	12.8	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:23		1.015	6.00	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:23		1.015	39.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 19:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 19:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	6/1/22 11:30	6/1/22 19:07		1.015	0.0176	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 19:07		1.015	0.0846	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 19:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 19:07		1.015	0.000489	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 19:07		1.015	0.0364	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 19:07		1.015	0.741	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:07		1.015	0.00180	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 19:07		1.015	4.23	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 5/25/22 13:07
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10113

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	0.0186	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	0.0835	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	0.000498	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	0.0377	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	0.0000821	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	0.734	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	0.00214	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	3.39	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:04		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:41	5/31/22 09:41		1	0.283	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 10:59	6/8/22 11:32		1	101	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	255	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 10:59	6/8/22 11:32		1	101	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 10:59	6/8/22 11:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 17:07	6/7/22 17:07		1	4.99	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 5/25/22 13:07
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10113

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:38	5/31/22 15:38		10	80.7	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:28	6/8/22 12:28		1	0.214	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:44	6/7/22 14:44		1	1.80	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/25/22 13:05	5/25/22 13:05			564.84	uS/cm			FA
pH	5/25/22 13:05	5/25/22 13:05			6.68	SU			FA
Temperature	5/25/22 13:05	5/25/22 13:05			21.92	C			FA
Turbidity	5/25/22 13:05	5/25/22 13:05			3.64	NTU			FA
Sulfide	5/25/22 13:05	5/25/22 13:05			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:07

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BC10113

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Limit		Rec	Limit	
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:07

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BC10113

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:07

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BC10113

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:07

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BC10113

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC10125	Alkalinity, Total as CaCO3	mg/L					6.68	52.0	45.0 to 55.0			2.95	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10116	Solids, Dissolved	mg/L	1.00	25.0			299	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15 Dup

Location Code: WMWBARAP
Collected: 5/25/22 13:07
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10114

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:52		1.015	0.0794	mg/L	0.030000	0.1015	J
* Calcium, Total	5/31/22 10:50	6/2/22 11:52		1.015	6.35	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:38		50.75	102	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:52		1.015	0.0116	mg/L	0.007105	0.01999956	J
* Magnesium, Total	5/31/22 10:50	6/2/22 13:20		1.015	5.33	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:52		1	12.8	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:52		1.015	5.96	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:52		1.015	35.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:26		1.015	0.0765	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:26		1.015	6.11	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:27		50.75	109	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:26		1.015	0.00859	mg/L	0.007105	0.01999956	J
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:26		1.015	5.12	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:26		1	12.8	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:26		1.015	5.99	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:26		1.015	38.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 19:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 19:10		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	6/1/22 11:30	6/1/22 19:10		1.015	0.0163	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 19:10		1.015	0.0806	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 19:10		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 19:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 19:10		1.015	0.000424	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 19:10		1.015	0.0358	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 19:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 19:10		1.015	0.719	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:10		1.015	0.00157	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 19:10		1.015	4.13	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15 Dup

Location Code: WMWBARAP
Collected: 5/25/22 13:07
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10114

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:10		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:10		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	0.0183	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	0.0819	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	0.000350	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	0.0373	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	0.725	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	0.00200	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	3.30	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:06		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:43	5/31/22 09:43		1	0.283	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 10:59	6/8/22 11:32		1	117	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	261	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 10:59	6/8/22 11:32		1	117	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 10:59	6/8/22 11:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 17:25	6/7/22 17:25		1	4.90	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15 Dup

Location Code: WMWBARAP

Collected: 5/25/22 13:07

Customer ID:

Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10114

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:40	5/31/22 15:40		10	79.7	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:29	6/8/22 12:29		1	0.168	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:45	6/7/22 14:45		1	1.49	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/25/22 13:05	5/25/22 13:05			564.84	uS/cm			FA
pH	5/25/22 13:05	5/25/22 13:05			6.68	SU			FA
Temperature	5/25/22 13:05	5/25/22 13:05			21.92	C			FA
Turbidity	5/25/22 13:05	5/25/22 13:05			3.64	NTU			FA
Sulfide	5/25/22 13:05	5/25/22 13:05			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:07

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-15 Dup

Laboratory ID Number: BC10114

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:07

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-15 Dup

Laboratory ID Number: BC10114

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:07

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-15 Dup

Laboratory ID Number: BC10114

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:07

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-15 Dup

Laboratory ID Number: BC10114

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10125	Alkalinity, Total as CaCO3	mg/L					6.68	52.0	45.0 to 55.0			2.95	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10116	Solids, Dissolved	mg/L	1.00	25.0			299	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 5/25/22 14:06
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10115

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 11:55		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 11:55		1.015	1.80	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 12:42		20.3	4.18	mg/L	0.1624	0.812		
* Lithium, Total	5/31/22 10:50	6/2/22 11:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 13:23		1.015	1.77	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:55		1	14.0	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 11:55		1.015	6.54	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:42		20.3	57.0	mg/L	0.609	8.12		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:29		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:29		1.015	1.79	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:29		1.015	3.90	mg/L	0.008120	0.0406	RA	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:29		1.015	1.67	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:29		1	14.4	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:29		1.015	6.72	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:30		10.15	55.9	mg/L	0.3045	4.06	RA	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 19:14		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 19:14		1.015	0.0132	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 19:14		1.015	0.00112	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 19:14		1.015	0.0569	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 19:14		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 19:14		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	6/1/22 11:30	6/1/22 19:14		1.015	0.0139	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 19:14		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 19:14		1.015	0.150	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:14		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 19:14		1.015	2.00	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 5/25/22 14:06
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10115

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:14		1.015	0.0000886	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	0.00126	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	0.0594	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	0.000278	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	0.0143	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	0.000127	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	0.151	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	2.01	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:16		1.015	0.0000919	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:45	5/31/22 09:45		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 11:53	6/8/22 13:41		1	22.6	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	188	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	22.6	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 17:50	6/7/22 17:50		1	1.64	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 5/25/22 14:06
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10115

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:41	5/31/22 15:41		10	56.6	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:31	6/8/22 12:31		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:47	6/7/22 14:47		1	35.1	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/25/22 14:03	5/25/22 14:03			318.16	uS/cm			FA
pH	5/25/22 14:03	5/25/22 14:03			5.26	SU			FA
Temperature	5/25/22 14:03	5/25/22 14:03			22.23	C			FA
Turbidity	5/25/22 14:03	5/25/22 14:03			1.38	NTU			FA
Sulfide	5/25/22 14:03	5/25/22 14:03			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:06

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BC10115

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC10115	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.104	0.104	0.0988	0.0850 to 0.115	104	70.0 to 130	0.00	20.0	
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0	
BC10115	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.0989	0.0976	0.0948	0.0850 to 0.115	98.9	70.0 to 130	1.32	20.0	
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0	
BC10115	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.103	0.104	0.103	0.0850 to 0.115	102	70.0 to 130	0.966	20.0	
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BC10115	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.163	0.160	0.0990	0.0850 to 0.115	104	70.0 to 130	1.86	20.0	
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0	
BC10115	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.103	0.104	0.101	0.0850 to 0.115	103	70.0 to 130	0.966	20.0	
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0	
BC10115	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.01	1.02	1.02	0.850 to 1.15	101	70.0 to 130	0.985	20.0	
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0	
BC10115	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.101	0.101	0.103	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0	
BC10115	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	6.58	6.68	5.03	4.25 to 5.75	95.8	70.0 to 130	1.51	20.0	
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0	
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0	
BC10115	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0994	0.101	0.0999	0.0850 to 0.115	99.1	70.0 to 130	1.60	20.0	
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC10115	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.118	0.119	0.103	0.0850 to 0.115	104	70.0 to 130	0.844	20.0	
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0	
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0	
BC10115	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	4.02	4.04	0.201	0.170 to 0.230	60.0	70.0 to 130	0.496	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:06

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BC10115

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10115	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.103	0.104	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10115	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.205	0.203	0.203	0.170 to 0.230	102	70.0 to 130	0.980	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10115	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	6.72	6.76	5.17	4.25 to 5.75	101	70.0 to 130	0.593	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10115	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.250	0.252	0.102	0.0850 to 0.115	99.0	70.0 to 130	0.797	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10115	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.102	0.102	0.100	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10115	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.6	11.8	9.74	8.50 to 11.5	95.9	70.0 to 130	1.71	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10115	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.103	0.103	0.102	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10115	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	7.66	7.65	1.01	0.850 to 1.15	94.0	70.0 to 130	0.131	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10115	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	62.8	62.2	5.08	4.25 to 5.75	138	70.0 to 130	0.960	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10115	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.101	0.101	0.102	0.0850 to 0.115	101	70.0 to 130	0.00	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:06

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BC10115

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:06

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BC10115

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BC10128	Alkalinity, Total as CaCO3	mg/L					16.6	52.0	45.0 to 55.0			3.68	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10116	Solids, Dissolved	mg/L	1.00	25.0			299	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 5/25/22 14:54
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10116

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 11:58		1.015	1.98	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 11:58		1.015	13.9	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:45		50.75	94.6	mg/L	0.40600	2.03	
* Lithium, Total	5/31/22 10:50	6/2/22 11:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 13:27		1.015	7.61	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 11:58		1	24.0	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 11:58		1.015	11.2	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 11:58		1.015	24.6	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:43		1.015	1.97	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:43		1.015	13.2	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:50		50.75	92.2	mg/L	0.40600	2.03	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:43		1.015	7.00	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:43		1	24.2	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:43		1.015	11.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:43		1.015	26.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 19:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 19:17		1.015	0.0137	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 19:17		1.015	0.0134	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 19:17		1.015	0.0977	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 19:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 19:17		1.015	0.00135	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/22 11:30	6/1/22 19:17		1.015	0.0155	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 19:17		1.015	0.845	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:17		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/1/22 11:30	6/1/22 19:17		1.015	2.11	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 5/25/22 14:54
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10116

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	0.00628	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	0.0144	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	0.0961	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	0.00139	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	0.0161	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	0.0000973	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	0.844	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	2.00	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:11		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:47	5/31/22 09:47		1	0.282	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 11:53	6/8/22 13:41		1	219	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	299	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	219	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 18:08	6/7/22 18:08		1	10.5	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 5/25/22 14:54
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10116

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:36	5/31/22 15:36		1	20.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:32	6/8/22 12:32		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:48	6/7/22 14:48		1	6.29	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/25/22 14:51	5/25/22 14:51			474.44	uS/cm			FA
pH	5/25/22 14:51	5/25/22 14:51			5.74	SU			FA
Temperature	5/25/22 14:51	5/25/22 14:51			22.27	C			FA
Turbidity	5/25/22 14:51	5/25/22 14:51			1.8	NTU			FA
Sulfide	5/25/22 14:51	5/25/22 14:51			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:54

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BC10116

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:54

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BC10116

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:54

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BC10116

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/25/22 14:54
Customer ID:
Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BC10116

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10128	Alkalinity, Total as CaCO3	mg/L					16.6	52.0	45.0 to 55.0			3.68	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10116	Solids, Dissolved	mg/L	1.00	25.0			299	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 5/25/22 15:35
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10117

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 12:01		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/31/22 10:50	6/2/22 12:01		1.015	1.69	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:01		1.015	0.124	mg/L	0.008120	0.0406	
* Lithium, Total	5/31/22 10:50	6/2/22 12:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 13:30		1.015	1.38	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:01		1	14.5	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 12:01		1.015	6.79	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 12:01		1.015	6.87	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:46		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:46		1.015	1.54	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:46		1.015	0.0889	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:46		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:46		1.015	1.22	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:46		1	14.7	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:46		1.015	6.85	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:46		1.015	7.70	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 19:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 19:21		1.015	0.0313	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 19:21		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	6/1/22 11:30	6/1/22 19:21		1.015	0.0399	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 19:21		1.015	0.000649	mg/L	0.000406	0.001015	J
* Cadmium, Total	6/1/22 11:30	6/1/22 19:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 19:21		1.015	0.000257	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 19:21		1.015	0.00455	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 19:21		1.015	0.000176	mg/L	0.000068	0.000203	J
* Manganese, Total	6/1/22 11:30	6/1/22 19:21		1.015	0.0207	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:21		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/1/22 11:30	6/1/22 19:21		1.015	1.44	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 5/25/22 15:35
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10117

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	0.0111	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	0.0000852	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	0.0381	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	0.000656	mg/L	0.000406	0.001015	J
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	0.000372	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	0.00431	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	0.000251	mg/L	0.000068	0.000203	
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	0.0187	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	1.43	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:42		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:48	5/31/22 09:48		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 11:53	6/8/22 13:41		1	1.76	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	48.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	1.76	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 18:31	6/7/22 18:31		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 5/25/22 15:35
Customer ID:
Submittal Date: 5/26/22 12:33

Laboratory ID Number: BC10117

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:37	5/31/22 15:37		1	16.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:33	6/8/22 12:33		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:49	6/7/22 14:49		1	1.97	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	5/25/22 15:33	5/25/22 15:33			72.52	uS/cm			FA
pH	5/25/22 15:33	5/25/22 15:33			4.60	SU			FA
Temperature	5/25/22 15:33	5/25/22 15:33			22.57	C			FA
Turbidity	5/25/22 15:33	5/25/22 15:33			1.54	NTU			FA
Sulfide	5/25/22 15:33	5/25/22 15:33			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:35

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BC10117

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:35

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BC10117

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:35

Customer ID:

Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BC10117

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard		Rec		Prec	Limit
				Limit	Spike	MS	Standard			Limit	Rec	Limit	Prec		
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0		
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0		

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/25/22 15:35
Customer ID:
Delivery Date: 5/26/22 12:33

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BC10117

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10128	Alkalinity, Total as CaCO3	mg/L					16.6	52.0	45.0 to 55.0			3.68	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10116	Solids, Dissolved	mg/L	1.00	25.0			299	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 5/25/22 10:39
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10118

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 12:03		1.015	0.177	mg/L	0.030000	0.1015	
* Calcium, Total	5/31/22 10:50	6/2/22 12:49		20.3	49.6	mg/L	1.4007	8.12	
* Iron, Total	5/31/22 10:50	6/2/22 12:03		1.015	0.608	mg/L	0.008120	0.0406	
* Lithium, Total	5/31/22 10:50	6/2/22 12:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 13:34		1.015	35.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:03		1	12.2	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 12:03		1.015	5.70	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 12:49		20.3	407	mg/L	0.609	8.12	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:49		1.015	0.175	mg/L	0.030000	0.1015	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 13:53		20.3	50.2	mg/L	1.4007	8.12	
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:49		1.015	0.412	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:49		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:49		1.015	32.9	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:49		1	12.2	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:49		1.015	5.70	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:53		20.3	412	mg/L	0.609	8.12	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 19:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 19:25		1.015	0.0639	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 19:25		1.015	0.00192	mg/L	0.000081	0.000203	
* Barium, Total	6/1/22 11:30	6/1/22 19:25		1.015	0.698	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 19:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 19:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 19:25		1.015	0.000477	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 19:25		1.015	0.0685	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 19:25		1.015	0.0000737	mg/L	0.000068	0.000203	J
* Manganese, Total	6/1/22 11:30	6/1/22 21:12		5.075	2.34	mg/L	0.000761	0.001015	
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:25		1.015	0.000428	mg/L	0.000102	0.000203	
* Potassium, Total	6/1/22 11:30	6/1/22 19:25		1.015	6.70	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 5/25/22 10:39
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10118

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:25		1.015	0.000103	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	0.00158	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	0.683	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	0.000236	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	0.0717	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	6/1/22 17:33		5.075	2.48	mg/L	0.000761	0.001015	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	0.000574	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	6.43	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:45		1.015	0.0000964	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:50	5/31/22 09:50		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 08:59	6/8/22 10:23		1	91.8	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	1270	mg/L		125	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	91.7	mg/L		1	A
Carbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	Not Detected	mg/L		0.5	A
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 18:55	6/7/22 18:55		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP

Collected: 5/25/22 10:39

Customer ID:

Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10118

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:42	5/31/22 15:42		40	649	mg/L	20.00	40	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:34	6/8/22 12:34		1	0.0799	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:59	6/7/22 14:59		2	49.1	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/22 10:36	5/25/22 10:36			2332.61	uS/cm			FA
pH	5/25/22 10:36	5/25/22 10:36			6.34	SU			FA
Temperature	5/25/22 10:36	5/25/22 10:36			21.85	C			FA
Turbidity	5/25/22 10:36	5/25/22 10:36			1.38	NTU			FA
Sulfide	5/25/22 10:36	5/25/22 10:36			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:39

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BC10118

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:39

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BC10118

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/25/22 10:39
Customer ID:
Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BC10118

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:39

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BC10118

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC10124	Alkalinity, Total as CaCO3	mg/L					8.28	52.0	45.0 to 55.0			2.94	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10116	Solids, Dissolved	mg/L	1.00	25.0			299	52.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 5/25/22 11:23
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10119

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 12:06		1.015	0.0597	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 12:06		1.015	11.6	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 12:52		50.75	78.2	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 12:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 13:37		1.015	5.30	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:06		1	15.6	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 12:06		1.015	7.31	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:06		1.015	16.5	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:52		1.015	0.0559	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:52		1.015	10.7	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:57		50.75	75.1	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:52		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:52		1.015	5.08	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:52		1	15.6	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:52		1.015	7.30	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:52		1.015	18.5	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 19:28		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 19:28		1.015	0.0401	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 19:28		1.015	0.0300	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 19:28		1.015	0.126	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 19:28		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 19:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 19:28		1.015	0.000334	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 19:28		1.015	0.00130	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 19:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 19:28		1.015	0.357	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:28		1.015	0.000454	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 19:28		1.015	1.37	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 5/25/22 11:23
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10119

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	0.0307	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	0.125	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	0.000324	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	0.00140	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	0.354	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	0.000372	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	1.37	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:52	5/31/22 09:52		1	0.251	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 08:59	6/8/22 10:23		1	143	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	194	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	143	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 19:13	6/7/22 19:13		1	5.77	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 5/25/22 11:23
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10119

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:29	5/31/22 15:29		1	16.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:35	6/8/22 12:35		1	0.138	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:51	6/7/22 14:51		1	3.58	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/22 11:20	5/25/22 11:20			388.95	uS/cm			FA
pH	5/25/22 11:20	5/25/22 11:20			6.21	SU			FA
Temperature	5/25/22 11:20	5/25/22 11:20			21.46	C			FA
Turbidity	5/25/22 11:20	5/25/22 11:20			2.84	NTU			FA
Sulfide	5/25/22 11:20	5/25/22 11:20			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:23

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BC10119

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0	
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0	
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0	
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0	
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0	
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0	
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0	
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0	
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0	
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0	
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0	
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0	
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0	
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0	
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0	
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0	
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:23

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BC10119

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:23

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BC10119

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:23

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BC10119

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC10124	Alkalinity, Total as CaCO3	mg/L					8.28	52.0	45.0 to 55.0			2.94	10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 5/25/22 12:50
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10120

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 12:09		1.015	0.307	mg/L	0.030000	0.1015		
* Calcium, Total	5/31/22 10:50	6/2/22 12:09		1.015	0.899	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 12:09		1.015	0.605	mg/L	0.008120	0.0406		
* Lithium, Total	5/31/22 10:50	6/2/22 12:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 13:40		1.015	0.527	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:09		1	12.7	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 12:09		1.015	5.94	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:55		20.3	139	mg/L	0.609	8.12		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:55		1.015	0.308	mg/L	0.030000	0.1015		
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:55		1.015	0.873	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 12:55		1.015	0.467	mg/L	0.008120	0.0406		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:55		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:55		1.015	0.485	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:55		1	12.8	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:55		1.015	5.99	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 14:00		20.3	144	mg/L	0.609	8.12		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 19:32		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 19:32		1.015	0.0466	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 19:32		1.015	0.00149	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 19:32		1.015	0.00735	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 19:32		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 19:32		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 19:32		1.015	0.000455	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 19:32		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	6/1/22 11:30	6/1/22 19:32		1.015	0.000124	mg/L	0.000068	0.000203	J	
* Manganese, Total	6/1/22 11:30	6/1/22 19:32		1.015	0.0258	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:32		1.015	0.00142	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 19:32		1.015	1.50	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 5/25/22 12:50
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10120

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	0.00158	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	0.00729	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	0.000286	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	0.0263	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	0.00151	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	1.51	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 09:54	5/31/22 09:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 08:59	6/8/22 10:23		1	168	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	359	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	166	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	2.01	mg/L			
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 19:36	6/7/22 19:36		1	1.11	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 5/25/22 12:50
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10120

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:43	5/31/22 15:43		20	106	mg/L	10.00	20	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:36	6/8/22 12:36		1	0.385	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:53	6/7/22 14:53		1	4.25	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/22 12:47	5/25/22 12:47			636.87	uS/cm			FA
pH	5/25/22 12:47	5/25/22 12:47			7.44	SU			FA
Temperature	5/25/22 12:47	5/25/22 12:47			20.55	C			FA
Turbidity	5/25/22 12:47	5/25/22 12:47			2.11	NTU			FA
Sulfide	5/25/22 12:47	5/25/22 12:47			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 12:50

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BC10120

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/25/22 12:50
Customer ID:
Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BC10120

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 12:50

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BC10120

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10120	Total Organic Carbon	mg/L	0.240	1.00	10.0	11.1	11.2	25.3		99.9	80.0 to 120	0.897	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 12:50

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BC10120

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec Limit	Prec	Prec Limit
BC10124	Alkalinity, Total as CaCO3	mg/L					8.28	52.0	45.0 to 55.0			2.94 10.0
BC10120	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	1.96	-0.009	1.97	1.80 to 2.20	98.0	90.0 to 110	0.00 15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35 10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 5/25/22 13:53
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10121

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 12:12		1.015	0.0526	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 12:12		1.015	24.5	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 13:00		50.75	56.4	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 12:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 13:44		1.015	7.30	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:12		1	34.2	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 12:12		1.015	16.0	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:12		1.015	18.9	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 12:58		1.015	0.0467	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 12:58		1.015	22.4	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 14:04		50.75	54.7	mg/L	0.40600	2.03		
* Lithium, Dissolved	5/27/22 09:45	6/1/22 12:58		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 12:58		1.015	6.48	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 12:58		1	33.2	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 12:58		1.015	15.5	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 12:58		1.015	20.8	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 19:35		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 19:35		1.015	0.0145	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 19:35		1.015	0.00518	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 19:35		1.015	0.174	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 19:35		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 19:35		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 19:35		1.015	0.000514	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 19:35		1.015	0.00200	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 19:35		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 19:35		1.015	0.988	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:35		1.015	0.000131	mg/L	0.000102	0.000203	J	
* Potassium, Total	6/1/22 11:30	6/1/22 19:35		1.015	1.06	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 5/25/22 13:53
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10121

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	0.00478	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	0.176	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	0.000604	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	0.00189	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	0.937	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	0.000157	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	0.973	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 18:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 10:03	5/31/22 10:03		1	0.246	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 11:53	6/8/22 13:41		1	194	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	236	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	194	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 21:09	6/7/22 21:09		1	5.68	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 5/25/22 13:53
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10121

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:31	5/31/22 15:31		1	6.63	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:38	6/8/22 12:38		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:54	6/7/22 14:54		1	4.01	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/22 13:50	5/25/22 13:50			411.87	uS/cm			FA
pH	5/25/22 13:50	5/25/22 13:50			5.92	SU			FA
Temperature	5/25/22 13:50	5/25/22 13:50			20.16	C			FA
Turbidity	5/25/22 13:50	5/25/22 13:50			1.45	NTU			FA
Sulfide	5/25/22 13:50	5/25/22 13:50			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/25/22 13:53
Customer ID:
Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BC10121

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:53

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BC10121

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:53

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BC10121

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Rec	Rec Limit	Prec Prec	Prec Limit
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1		103	80.0 to 120	0.966	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:53

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BC10121

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10128	Alkalinity, Total as CaCO3	mg/L					16.6	52.0	45.0 to 55.0			3.68	10.0
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 5/25/22 15:05
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10122

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 12:15		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 12:15		1.015	1.29	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 12:15		1.015	0.00821	mg/L	0.008120	0.0406	J	
* Lithium, Total	5/31/22 10:50	6/2/22 12:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 13:47		1.015	1.11	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:15		1	13.3	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 12:15		1.015	6.22	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:15		1.015	7.98	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 13:01		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 13:01		1.015	1.28	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:01		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 13:01		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 13:01		1.015	1.05	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 13:01		1	13.7	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 13:01		1.015	6.39	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:01		1.015	8.96	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 19:39		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 19:39		1.015	0.0130	mg/L	0.006090	0.01015		
* Arsenic, Total	6/1/22 11:30	6/1/22 19:39		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	6/1/22 11:30	6/1/22 19:39		1.015	0.0494	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 19:39		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 19:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 19:39		1.015	0.00104	mg/L	0.000203	0.001015		
* Cobalt, Total	6/1/22 11:30	6/1/22 19:39		1.015	0.000279	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 19:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 19:39		1.015	0.00891	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 19:39		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 19:39		1.015	1.24	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 5/25/22 15:05
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10122

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 19:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 19:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	0.0515	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	0.00108	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	0.000284	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	0.00888	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	1.25	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 19:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 12:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 10:05	5/31/22 10:05		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 11:53	6/8/22 13:41		1	2.52	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	50.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	2.52	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 21:28	6/7/22 21:28		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 5/25/22 15:05
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10122

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	5/31/22 15:32	5/31/22 15:32		1	15.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:39	6/8/22 12:39		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 14:55	6/7/22 14:55		1	1.41	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	5/25/22 15:02	5/25/22 15:02			65.47	uS/cm			FA
pH	5/25/22 15:02	5/25/22 15:02			4.64	SU			FA
Temperature	5/25/22 15:02	5/25/22 15:02			21.52	C			FA
Turbidity	5/25/22 15:02	5/25/22 15:02			0.66	NTU			FA
Sulfide	5/25/22 15:02	5/25/22 15:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:05

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BC10122

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10122	Aluminum, Total	mg/L	0.000904	0.010	0.100	0.120	0.118	0.109	0.0850 to 0.115	107	70.0 to 130	1.68	20.0
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10122	Antimony, Total	mg/L	0.000272	0.00100	0.100	0.0924	0.0920	0.0923	0.0850 to 0.115	92.4	70.0 to 130	0.434	20.0
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0
BC10122	Arsenic, Total	mg/L	0.0000029	0.000176	0.100	0.102	0.100	0.101	0.0850 to 0.115	102	70.0 to 130	1.98	20.0
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0
BC10122	Barium, Total	mg/L	0.0000218	0.00100	0.100	0.149	0.148	0.0996	0.0850 to 0.115	99.6	70.0 to 130	0.673	20.0
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Beryllium, Total	mg/L	0.0000219	0.000880	0.100	0.106	0.104	0.100	0.0850 to 0.115	106	70.0 to 130	1.90	20.0
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0
BC10122	Boron, Total	mg/L	0.000059	0.0650	1.00	1.01	1.00	1.03	0.850 to 1.15	101	70.0 to 130	0.995	20.0
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10122	Cadmium, Total	mg/L	0.0000031	0.000147	0.100	0.0995	0.0988	0.0989	0.0850 to 0.115	99.5	70.0 to 130	0.706	20.0
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BC10122	Calcium, Total	mg/L	0.00326	0.152	5.00	6.24	6.04	4.95	4.25 to 5.75	99.0	70.0 to 130	3.26	20.0
BC10122	Chloride	mg/L	-0.111	1.00	10.0	23.6	23.7	9.52	9.00 to 11.0	84.0	80.0 to 120	0.423	20.0
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0
BC10122	Chromium, Total	mg/L	-0.0000481	0.000440	0.100	0.102	0.101	0.100	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10122	Cobalt, Total	mg/L	-0.0000034	0.000147	0.100	0.101	0.100	0.101	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10122	Fluoride	mg/L	0.0243	0.125	2.50	2.50	2.49	2.57	2.25 to 2.75	100	80.0 to 120	0.401	20.0
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:05

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BC10122

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10122	Iron, Total	mg/L	0.00011	0.0176	0.2	0.210	0.207	0.200	0.170 to 0.230	101	70.0 to 130	1.44	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10122	Lead, Total	mg/L	0.0000025	0.000147	0.100	0.102	0.101	0.101	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10122	Lithium, Total	mg/L	0.00014	0.0154	0.200	0.190	0.188	0.201	0.170 to 0.230	95.0	70.0 to 130	1.06	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10122	Magnesium, Total	mg/L	0.00638	0.0462	5.00	6.53	6.48	5.20	4.25 to 5.75	108	70.0 to 130	0.769	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10122	Manganese, Total	mg/L	0.0000074	0.0002	0.100	0.113	0.111	0.103	0.0850 to 0.115	104	70.0 to 130	1.79	20.0
BC10122	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00422	0.00420	0.00424	0.00340 to 0.00460	106	70.0 to 130	0.475	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10122	Molybdenum, Total	mg/L	0.00001	0.0002	0.100	0.0995	0.0962	0.0973	0.0850 to 0.115	99.5	70.0 to 130	3.37	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10122	Potassium, Total	mg/L	-0.0105	0.367	10.0	11.5	11.3	10.2	8.50 to 11.5	103	70.0 to 130	1.75	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10122	Selenium, Total	mg/L	0.000162	0.00100	0.100	0.103	0.102	0.103	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10122	Silicon, Total	mg/L	0.000146	0.0440	1.00	7.33	7.32	1.02	0.850 to 1.15	111	70.0 to 130	0.137	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10122	Sodium, Total	mg/L	0.0212	0.0660	5.00	12.5	12.5	5.05	4.25 to 5.75	90.4	70.0 to 130	0.00	20.0
BC10122	Sulfate	mg/L	-0.244	2.0	20.0	20.8	20.8	18.8	18.0 to 22.0	97.0	80.0 to 120	0.00	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:05

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BC10122

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec Limit	Prec	Prec Limit	
BC10122	Thallium, Total	mg/L	0.000001	0.000147	0.100	0.105	0.104	0.103	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1		103	80.0 to 120	0.966	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:05

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BC10122

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10128	Alkalinity, Total as CaCO3	mg/L					16.6	52.0	45.0 to 55.0			3.68	10.0
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-4

Location Code: WMWBARAPFB
Collected: 5/25/22 15:20
Customer ID:
Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10123

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 12:36		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 12:36		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/31/22 10:50	6/2/22 12:36		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/31/22 10:50	6/2/22 12:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 14:11		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:36		1	Not Detected	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 12:36		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/31/22 10:50	6/2/22 12:36		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	6/1/22 11:30	6/1/22 20:07		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 11:38		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: ELH								
* Nitrogen, Nitrate/Nitrite	5/31/22 10:07	5/31/22 10:07		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-4

Location Code: WMWBARAPFB

Collected: 5/25/22 15:20

Customer ID:

Submittal Date: 5/26/22 12:36

Laboratory ID Number: BC10123

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 21:43	6/7/22 21:43		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	6/3/22 12:47	6/3/22 12:47		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:51	6/8/22 12:51		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 15:08	6/7/22 15:08		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/25/22 15:20

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BC10123

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10129	Aluminum, Total	mg/L	0.00104	0.010	0.100	0.111	0.110	0.105	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC10129	Antimony, Total	mg/L	0.000293	0.00100	0.100	0.0932	0.0905	0.0899	0.0850 to 0.115	93.2	70.0 to 130	2.94	20.0
BC10129	Arsenic, Total	mg/L	0.0000146	0.000176	0.100	0.101	0.102	0.0997	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10129	Barium, Total	mg/L	0.000	0.00100	0.100	0.102	0.0995	0.0984	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC10129	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.107	0.105	0.106	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BC10129	Boron, Total	mg/L	0.00291	0.0650	1.00	0.980	0.976	0.994	0.850 to 1.15	98.0	70.0 to 130	0.409	20.0
BC10129	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.101	0.100	0.0980	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10129	Calcium, Total	mg/L	0.00594	0.152	5.00	4.77	4.72	4.79	4.25 to 5.75	95.4	70.0 to 130	1.05	20.0
BC10129	Chloride	mg/L	0.117	1.00	10.0	10.5	10.5	9.33	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BC10129	Chromium, Total	mg/L	-0.0000922	0.000440	0.100	0.102	0.102	0.0986	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10129	Cobalt, Total	mg/L	-0.0000048	0.000147	0.100	0.103	0.102	0.0985	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10129	Fluoride	mg/L	0.0162	0.125	2.50	2.60	2.65	2.53	2.25 to 2.75	104	80.0 to 120	1.90	20.0
BC10129	Iron, Total	mg/L	0.000506	0.0176	0.2	0.196	0.194	0.200	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BC10129	Lead, Total	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10129	Lithium, Total	mg/L	0.000146	0.0154	0.200	0.188	0.186	0.187	0.170 to 0.230	94.0	70.0 to 130	1.07	20.0
BC10129	Magnesium, Total	mg/L	0.000221	0.0462	5.00	5.30	5.32	5.44	4.25 to 5.75	106	70.0 to 130	0.377	20.0
BC10129	Manganese, Total	mg/L	0.0000009	0.0002	0.100	0.105	0.104	0.101	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00419	0.00431	0.00424	0.00340 to 0.00460	105	70.0 to 130	2.82	20.0
BC10129	Molybdenum, Total	mg/L	0.0000005	0.0002	0.100	0.0979	0.0985	0.0983	0.0850 to 0.115	97.9	70.0 to 130	0.611	20.0
BC10129	Potassium, Total	mg/L	-0.00785	0.367	10.0	10.1	10.2	9.95	8.50 to 11.5	101	70.0 to 130	0.985	20.0
BC10129	Selenium, Total	mg/L	0.0000943	0.00100	0.100	0.102	0.103	0.103	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10129	Silicon, Total	mg/L	0.000536	0.0440	1.00	0.976	0.974	0.980	0.850 to 1.15	97.6	70.0 to 130	0.205	20.0
BC10129	Sodium, Total	mg/L	0.0170	0.0660	5.00	4.63	4.58	4.63	4.25 to 5.75	92.6	70.0 to 130	1.09	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/25/22 15:20

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BC10123

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC10129	Sulfate	mg/L	-0.251	2.0	20.0	19.5	19.7	18.7	18.0 to 22.0	97.5	80.0 to 120	1.02	20.0
BC10129	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1		103	80.0 to 120	0.966	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/25/22 15:20

Customer ID:

Delivery Date: 5/26/22 12:36

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BC10123

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 5/25/22 10:50
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10124

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 12:39		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/31/22 10:50	6/2/22 12:39		1.015	0.573	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:39		1.015	0.0431	mg/L	0.008120	0.0406	
* Lithium, Total	5/31/22 10:50	6/2/22 12:39		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 14:14		1.015	0.353	mg/L	0.021315	0.406	J
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:39		1	13.5	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 12:39		1.015	6.33	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 12:39		1.015	4.55	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 13:04		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/27/22 09:45	6/1/22 13:04		1.015	0.478	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:04		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/27/22 09:45	6/1/22 13:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 13:04		1.015	0.298	mg/L	0.021315	0.406	J
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 13:04		1	13.7	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 13:04		1.015	6.42	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:04		1.015	5.16	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 20:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 20:11		1.015	0.0129	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 20:11		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	6/1/22 11:30	6/1/22 20:11		1.015	0.00993	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 20:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 20:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 20:11		1.015	0.00126	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/22 11:30	6/1/22 20:11		1.015	0.000277	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 20:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 20:11		1.015	0.00466	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 20:11		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/1/22 11:30	6/1/22 20:11		1.015	0.730	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 5/25/22 10:50
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10124

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 20:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 20:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	0.00947	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	0.00120	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	0.000260	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	0.00381	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	0.749	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 19:03		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 11:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 10:09	5/31/22 10:09		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 08:59	6/8/22 10:23		1	8.04	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	29.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	8.02	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 08:59	6/8/22 10:23		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 22:02	6/7/22 22:02		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 5/25/22 10:50
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10124

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	6/3/22 12:48	6/3/22 12:48		1	3.22	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:52	6/8/22 12:52		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 15:09	6/7/22 15:09		1	2.13	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/25/22 10:48	5/25/22 10:48			29.82	uS/cm			FA
pH	5/25/22 10:48	5/25/22 10:48			5.45	SU			FA
Temperature	5/25/22 10:48	5/25/22 10:48			22.35	C			FA
Turbidity	5/25/22 10:48	5/25/22 10:48			1.53	NTU			FA
Sulfide	5/25/22 10:48	5/25/22 10:48			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/25/22 10:50
Customer ID:
Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BC10124

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec
				Limit					Standard	Limit	Rec	Limit	
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10129	Aluminum, Total	mg/L	0.00104	0.010	0.100	0.111	0.110	0.105	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10129	Antimony, Total	mg/L	0.000293	0.00100	0.100	0.0932	0.0905	0.0899	0.0850 to 0.115	93.2	70.0 to 130	2.94	20.0
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0
BC10129	Arsenic, Total	mg/L	0.0000146	0.000176	0.100	0.101	0.102	0.0997	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0
BC10129	Barium, Total	mg/L	0.000	0.00100	0.100	0.102	0.0995	0.0984	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10129	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.107	0.105	0.106	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0
BC10129	Boron, Total	mg/L	0.00291	0.0650	1.00	0.980	0.976	0.994	0.850 to 1.15	98.0	70.0 to 130	0.409	20.0
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10129	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.101	0.100	0.0980	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BC10129	Calcium, Total	mg/L	0.00594	0.152	5.00	4.77	4.72	4.79	4.25 to 5.75	95.4	70.0 to 130	1.05	20.0
BC10129	Chloride	mg/L	0.117	1.00	10.0	10.5	10.5	9.33	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0
BC10129	Chromium, Total	mg/L	-0.0000922	0.000440	0.100	0.102	0.102	0.0986	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10129	Cobalt, Total	mg/L	-0.0000048	0.000147	0.100	0.103	0.102	0.0985	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10129	Fluoride	mg/L	0.0162	0.125	2.50	2.60	2.65	2.53	2.25 to 2.75	104	80.0 to 120	1.90	20.0
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:50

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BC10124

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10129	Iron, Total	mg/L	0.000506	0.0176	0.2	0.196	0.194	0.200	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10129	Lead, Total	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10129	Lithium, Total	mg/L	0.000146	0.0154	0.200	0.188	0.186	0.187	0.170 to 0.230	94.0	70.0 to 130	1.07	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10129	Magnesium, Total	mg/L	0.000221	0.0462	5.00	5.30	5.32	5.44	4.25 to 5.75	106	70.0 to 130	0.377	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10129	Manganese, Total	mg/L	0.0000009	0.0002	0.100	0.105	0.104	0.101	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00419	0.00431	0.00424	0.00340 to 0.00460	105	70.0 to 130	2.82	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10129	Molybdenum, Total	mg/L	0.0000005	0.0002	0.100	0.0979	0.0985	0.0983	0.0850 to 0.115	97.9	70.0 to 130	0.611	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10129	Potassium, Total	mg/L	-0.00785	0.367	10.0	10.1	10.2	9.95	8.50 to 11.5	101	70.0 to 130	0.985	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10129	Selenium, Total	mg/L	0.0000943	0.00100	0.100	0.102	0.103	0.103	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10129	Silicon, Total	mg/L	0.000536	0.0440	1.00	0.976	0.974	0.980	0.850 to 1.15	97.6	70.0 to 130	0.205	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10129	Sodium, Total	mg/L	0.0170	0.0660	5.00	4.63	4.58	4.63	4.25 to 5.75	92.6	70.0 to 130	1.09	20.0
BC10129	Sulfate	mg/L	-0.251	2.0	20.0	19.5	19.7	18.7	18.0 to 22.0	97.5	80.0 to 120	1.02	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 10:50

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BC10124

Sample	Analysis	Units	MB	MB				Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike	MS	MSD			Rec	Limit		
BC10129	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1		103	80.0 to 120	0.966	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 5/25/22 10:50
Customer ID:
Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BC10124

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC10124	Alkalinity, Total as CaCO3	mg/L					8.28	52.0	45.0 to 55.0			2.94	10.0
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 5/25/22 11:40
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10125

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 12:42		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/31/22 10:50	6/2/22 12:42		1.015	0.949	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:42		1.015	0.0796	mg/L	0.008120	0.0406	
* Lithium, Total	5/31/22 10:50	6/2/22 12:42		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 14:18		1.015	0.787	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:42		1	15.9	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 12:42		1.015	7.42	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 12:42		1.015	5.34	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 13:07		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/27/22 09:45	6/1/22 13:07		1.015	0.857	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:07		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	5/27/22 09:45	6/1/22 13:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 13:07		1.015	0.679	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 13:07		1	16.0	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 13:07		1.015	7.50	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:07		1.015	6.16	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 20:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 20:14		1.015	0.0135	mg/L	0.006090	0.01015	
* Arsenic, Total	6/1/22 11:30	6/1/22 20:14		1.015	0.000196	mg/L	0.000081	0.000203	J
* Barium, Total	6/1/22 11:30	6/1/22 20:14		1.015	0.0197	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 20:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 20:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 20:14		1.015	0.00103	mg/L	0.000203	0.001015	
* Cobalt, Total	6/1/22 11:30	6/1/22 20:14		1.015	0.00132	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 20:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 20:14		1.015	0.00351	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 20:14		1.015	0.000103	mg/L	0.000102	0.000203	J
* Potassium, Total	6/1/22 11:30	6/1/22 20:14		1.015	0.958	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 5/25/22 11:40
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10125

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 20:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 20:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	0.000157	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	0.0178	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	0.00104	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	0.00119	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	0.0000752	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	0.00297	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	0.950	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 19:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 11:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 10:11	5/31/22 10:11		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 10:59	6/8/22 11:32		1	6.88	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	37.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 10:59	6/8/22 11:32		1	6.88	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 10:59	6/8/22 11:32		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 22:24	6/7/22 22:24		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 5/25/22 11:40
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10125

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	6/3/22 12:49	6/3/22 12:49		1	5.32	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:53	6/8/22 12:53		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 15:11	6/7/22 15:11		1	4.24	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/25/22 11:36	5/25/22 11:36			43.00	uS/cm			FA
pH	5/25/22 11:36	5/25/22 11:36			5.23	SU			FA
Temperature	5/25/22 11:36	5/25/22 11:36			22.54	C			FA
Turbidity	5/25/22 11:36	5/25/22 11:36			0.93	NTU			FA
Sulfide	5/25/22 11:36	5/25/22 11:36			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:40

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BC10125

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10129	Aluminum, Total	mg/L	0.00104	0.010	0.100	0.111	0.110	0.105	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC10129	Antimony, Total	mg/L	0.000293	0.00100	0.100	0.0932	0.0905	0.0899	0.0850 to 0.115	93.2	70.0 to 130	2.94	20.0
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0
BC10129	Arsenic, Total	mg/L	0.0000146	0.000176	0.100	0.101	0.102	0.0997	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0
BC10129	Barium, Total	mg/L	0.000	0.00100	0.100	0.102	0.0995	0.0984	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10129	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.107	0.105	0.106	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0
BC10129	Boron, Total	mg/L	0.00291	0.0650	1.00	0.980	0.976	0.994	0.850 to 1.15	98.0	70.0 to 130	0.409	20.0
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC10129	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.101	0.100	0.0980	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0
BC10129	Calcium, Total	mg/L	0.00594	0.152	5.00	4.77	4.72	4.79	4.25 to 5.75	95.4	70.0 to 130	1.05	20.0
BC10129	Chloride	mg/L	0.117	1.00	10.0	10.5	10.5	9.33	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0
BC10129	Chromium, Total	mg/L	-0.0000922	0.000440	0.100	0.102	0.102	0.0986	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0
BC10129	Cobalt, Total	mg/L	-0.0000048	0.000147	0.100	0.103	0.102	0.0985	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10129	Fluoride	mg/L	0.0162	0.125	2.50	2.60	2.65	2.53	2.25 to 2.75	104	80.0 to 120	1.90	20.0
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:40

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BC10125

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10129	Iron, Total	mg/L	0.000506	0.0176	0.2	0.196	0.194	0.200	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10129	Lead, Total	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10129	Lithium, Total	mg/L	0.000146	0.0154	0.200	0.188	0.186	0.187	0.170 to 0.230	94.0	70.0 to 130	1.07	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10129	Magnesium, Total	mg/L	0.000221	0.0462	5.00	5.30	5.32	5.44	4.25 to 5.75	106	70.0 to 130	0.377	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10129	Manganese, Total	mg/L	0.0000009	0.0002	0.100	0.105	0.104	0.101	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00419	0.00431	0.00424	0.00340 to 0.00460	105	70.0 to 130	2.82	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10129	Molybdenum, Total	mg/L	0.0000005	0.0002	0.100	0.0979	0.0985	0.0983	0.0850 to 0.115	97.9	70.0 to 130	0.611	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10129	Potassium, Total	mg/L	-0.00785	0.367	10.0	10.1	10.2	9.95	8.50 to 11.5	101	70.0 to 130	0.985	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10129	Selenium, Total	mg/L	0.0000943	0.00100	0.100	0.102	0.103	0.103	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10129	Silicon, Total	mg/L	0.000536	0.0440	1.00	0.976	0.974	0.980	0.850 to 1.15	97.6	70.0 to 130	0.205	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10129	Sodium, Total	mg/L	0.0170	0.0660	5.00	4.63	4.58	4.63	4.25 to 5.75	92.6	70.0 to 130	1.09	20.0
BC10129	Sulfate	mg/L	-0.251	2.0	20.0	19.5	19.7	18.7	18.0 to 22.0	97.5	80.0 to 120	1.02	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:40

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BC10125

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10129	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1		103	80.0 to 120	0.966	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 11:40

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BC10125

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC10125	Alkalinity, Total as CaCO3	mg/L					6.68	52.0	45.0 to 55.0			2.95	10.0
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5

Location Code: WMWBARAP
Collected: 5/25/22 13:05
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10126

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 12:45		1.015	0.0630	mg/L	0.030000	0.1015	J	
* Calcium, Total	5/31/22 10:50	6/2/22 12:45		1.015	14.6	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 13:03		50.75	84.9	mg/L	0.40600	2.03		
* Lithium, Total	5/31/22 10:50	6/2/22 12:45		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 14:21		1.015	5.50	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:45		1	26.1	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 12:45		1.015	12.2	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:45		1.015	19.8	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 13:09		1.015	0.0565	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 13:09		1.015	14.4	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 14:07		50.75	81.0	mg/L	0.40600	2.03	RA	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 13:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 13:09		1.015	5.19	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 13:09		1	26.8	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 13:09		1.015	12.5	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:09		1.015	22.4	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 20:18		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 20:18		1.015	0.00862	mg/L	0.006090	0.01015	J	
* Arsenic, Total	6/1/22 11:30	6/1/22 20:18		1.015	0.0316	mg/L	0.000081	0.000203		
* Barium, Total	6/1/22 11:30	6/1/22 20:18		1.015	0.155	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 20:18		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 20:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 20:18		1.015	0.00103	mg/L	0.000203	0.001015		
* Cobalt, Total	6/1/22 11:30	6/1/22 20:18		1.015	0.00184	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 20:18		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 20:18		1.015	0.670	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 20:18		1.015	0.000114	mg/L	0.000102	0.000203	J	
* Potassium, Total	6/1/22 11:30	6/1/22 20:18		1.015	1.46	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5

Location Code: WMWBARAP
Collected: 5/25/22 13:05
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10126

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 20:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 20:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	0.0334	mg/L	0.000081	0.000203	
* Barium, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	0.164	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	0.00110	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	0.00188	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	0.674	mg/L	0.000152	0.000203	RA
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	0.000234	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	1.49	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 19:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 11:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 10:11	5/31/22 10:11		1	0.230	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 11:53	6/8/22 13:41		1	193	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	252	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	193	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 22:43	6/7/22 22:43		1	14.5	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5

Location Code: WMWBARAP
Collected: 5/25/22 13:05
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10126

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	6/3/22 12:51	6/3/22 12:51		1	20.0	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:54	6/8/22 12:54		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 15:12	6/7/22 15:12		1	5.53	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/25/22 13:02	5/25/22 13:02			426.36	uS/cm			FA
pH	5/25/22 13:02	5/25/22 13:02			5.99	SU			FA
Temperature	5/25/22 13:02	5/25/22 13:02			22.21	C			FA
Turbidity	5/25/22 13:02	5/25/22 13:02			1.77	NTU			FA
Sulfide	5/25/22 13:02	5/25/22 13:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:05

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BC10126

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC10126	Aluminum, Dissolved	mg/L	0.000156	0.010	0.100	0.102	0.102	0.0988	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC10129	Aluminum, Total	mg/L	0.00104	0.010	0.100	0.111	0.110	0.105	0.0850 to 0.115	111	70.0 to 130	0.905	20.0	
BC10126	Antimony, Dissolved	mg/L	0.000293	0.00100	0.100	0.101	0.101	0.0948	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC10129	Antimony, Total	mg/L	0.000293	0.00100	0.100	0.0932	0.0905	0.0899	0.0850 to 0.115	93.2	70.0 to 130	2.94	20.0	
BC10126	Arsenic, Dissolved	mg/L	0.0000287	0.000176	0.100	0.136	0.131	0.103	0.0850 to 0.115	103	70.0 to 130	3.75	20.0	
BC10129	Arsenic, Total	mg/L	0.0000146	0.000176	0.100	0.101	0.102	0.0997	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC10126	Barium, Dissolved	mg/L	-0.0000115	0.00100	0.100	0.264	0.257	0.0990	0.0850 to 0.115	100	70.0 to 130	2.69	20.0	
BC10129	Barium, Total	mg/L	0.000	0.00100	0.100	0.102	0.0995	0.0984	0.0850 to 0.115	102	70.0 to 130	2.48	20.0	
BC10126	Beryllium, Dissolved	mg/L	0.000136	0.000880	0.100	0.104	0.0996	0.101	0.0850 to 0.115	104	70.0 to 130	4.32	20.0	
BC10129	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.107	0.105	0.106	0.0850 to 0.115	107	70.0 to 130	1.89	20.0	
BC10126	Boron, Dissolved	mg/L	-0.000139	0.0650	1.00	1.08	1.06	1.02	0.850 to 1.15	102	70.0 to 130	1.87	20.0	
BC10129	Boron, Total	mg/L	0.00291	0.0650	1.00	0.980	0.976	0.994	0.850 to 1.15	98.0	70.0 to 130	0.409	20.0	
BC10126	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0	
BC10129	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.101	0.100	0.0980	0.0850 to 0.115	101	70.0 to 130	0.995	20.0	
BC10126	Calcium, Dissolved	mg/L	0.000808	0.152	5.00	19.2	19.2	5.03	4.25 to 5.75	96.0	70.0 to 130	0.00	20.0	
BC10129	Calcium, Total	mg/L	0.00594	0.152	5.00	4.77	4.72	4.79	4.25 to 5.75	95.4	70.0 to 130	1.05	20.0	
BC10129	Chloride	mg/L	0.117	1.00	10.0	10.5	10.5	9.33	9.00 to 11.0	105	80.0 to 120	0.00	20.0	
BC10126	Chromium, Dissolved	mg/L	0.0000163	0.000440	0.100	0.0993	0.0994	0.0999	0.0850 to 0.115	98.2	70.0 to 130	0.101	20.0	
BC10129	Chromium, Total	mg/L	-0.0000922	0.000440	0.100	0.102	0.102	0.0986	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC10126	Cobalt, Dissolved	mg/L	0.0000016	0.000147	0.100	0.105	0.105	0.103	0.0850 to 0.115	103	70.0 to 130	0.00	20.0	
BC10129	Cobalt, Total	mg/L	-0.0000048	0.000147	0.100	0.103	0.102	0.0985	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BC10129	Fluoride	mg/L	0.0162	0.125	2.50	2.60	2.65	2.53	2.25 to 2.75	104	80.0 to 120	1.90	20.0	
BC10126	Iron, Dissolved	mg/L	0.000179	0.0176	0.2	78.8	79.0	0.201	0.170 to 0.230	-1100	70.0 to 130	0.253	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:05

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BC10126

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10129	Iron, Total	mg/L	0.000506	0.0176	0.2	0.196	0.194	0.200	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BC10126	Lead, Dissolved	mg/L	0.0000088	0.000147	0.100	0.104	0.0996	0.104	0.0850 to 0.115	104	70.0 to 130	4.32	20.0
BC10129	Lead, Total	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10126	Lithium, Dissolved	mg/L	0.000048	0.0154	0.200	0.213	0.211	0.203	0.170 to 0.230	106	70.0 to 130	0.943	20.0
BC10129	Lithium, Total	mg/L	0.000146	0.0154	0.200	0.188	0.186	0.187	0.170 to 0.230	94.0	70.0 to 130	1.07	20.0
BC10126	Magnesium, Dissolved	mg/L	0.00696	0.0462	5.00	10.2	10.2	5.17	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC10129	Magnesium, Total	mg/L	0.000221	0.0462	5.00	5.30	5.32	5.44	4.25 to 5.75	106	70.0 to 130	0.377	20.0
BC10126	Manganese, Dissolved	mg/L	0.0000609	0.0002	0.100	0.745	0.742	0.102	0.0850 to 0.115	71.0	70.0 to 130	0.403	20.0
BC10129	Manganese, Total	mg/L	0.0000009	0.0002	0.100	0.105	0.104	0.101	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00419	0.00431	0.00424	0.00340 to 0.00460	105	70.0 to 130	2.82	20.0
BC10126	Molybdenum, Dissolved	mg/L	0.0000009	0.0002	0.100	0.0992	0.0985	0.100	0.0850 to 0.115	99.0	70.0 to 130	0.708	20.0
BC10129	Molybdenum, Total	mg/L	0.0000005	0.0002	0.100	0.0979	0.0985	0.0983	0.0850 to 0.115	97.9	70.0 to 130	0.611	20.0
BC10126	Potassium, Dissolved	mg/L	-0.0279	0.367	10.0	11.1	10.8	9.74	8.50 to 11.5	96.1	70.0 to 130	2.74	20.0
BC10129	Potassium, Total	mg/L	-0.00785	0.367	10.0	10.1	10.2	9.95	8.50 to 11.5	101	70.0 to 130	0.985	20.0
BC10126	Selenium, Dissolved	mg/L	-0.0000585	0.00100	0.100	0.104	0.103	0.102	0.0850 to 0.115	104	70.0 to 130	0.966	20.0
BC10129	Selenium, Total	mg/L	0.0000943	0.00100	0.100	0.102	0.103	0.103	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10126	Silicon, Dissolved	mg/L	0.000042	0.0440	1.00	13.4	13.4	1.01	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC10129	Silicon, Total	mg/L	0.000536	0.0440	1.00	0.976	0.974	0.980	0.850 to 1.15	97.6	70.0 to 130	0.205	20.0
BC10126	Sodium, Dissolved	mg/L	0.0124	0.0660	5.00	27.4	27.6	5.08	4.25 to 5.75	100	70.0 to 130	0.727	20.0
BC10129	Sodium, Total	mg/L	0.0170	0.0660	5.00	4.63	4.58	4.63	4.25 to 5.75	92.6	70.0 to 130	1.09	20.0
BC10129	Sulfate	mg/L	-0.251	2.0	20.0	19.5	19.7	18.7	18.0 to 22.0	97.5	80.0 to 120	1.02	20.0
BC10126	Thallium, Dissolved	mg/L	0.0000014	0.000147	0.100	0.103	0.0988	0.102	0.0850 to 0.115	103	70.0 to 130	4.16	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:05

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BC10126

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10129	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1		103	80.0 to 120	0.966	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 13:05

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BC10126

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10128	Alkalinity, Total as CaCO3	mg/L					16.6	52.0	45.0 to 55.0			3.68	10.0
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5V

Location Code: WMWBARAP
Collected: 5/25/22 14:03
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10127

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Total	5/31/22 10:50	6/2/22 12:48		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	5/31/22 10:50	6/2/22 12:48		1.015	2.62	mg/L	0.070035	0.406	
* Iron, Total	5/31/22 10:50	6/2/22 12:48		1.015	0.543	mg/L	0.008120	0.0406	
* Lithium, Total	5/31/22 10:50	6/2/22 12:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	5/31/22 10:50	6/2/22 14:24		1.015	1.97	mg/L	0.021315	0.406	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:48		1	13.8	mg/L			
Silicon, Total	5/31/22 10:50	6/2/22 12:48		1.015	6.46	mg/L	0.02030	0.25375	
* Sodium, Total	5/31/22 10:50	6/2/22 12:48		1.015	18.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: RDA		Preparation Method: EPA 1638				
* Boron, Dissolved	5/27/22 09:45	6/1/22 13:30		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	5/27/22 09:45	6/1/22 13:30		1.015	2.58	mg/L	0.070035	0.406	
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:30		1.015	0.328	mg/L	0.008120	0.0406	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 13:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 13:30		1.015	1.90	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 13:30		1	14.3	mg/L			
Silicon, Dissolved	5/27/22 09:45	6/1/22 13:30		1.015	6.69	mg/L	0.02030	0.25375	
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:30		1.015	20.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	6/1/22 11:30	6/1/22 20:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	6/1/22 11:30	6/1/22 20:22		1.015	0.00715	mg/L	0.006090	0.01015	J
* Arsenic, Total	6/1/22 11:30	6/1/22 20:22		1.015	0.000171	mg/L	0.000081	0.000203	J
* Barium, Total	6/1/22 11:30	6/1/22 20:22		1.015	0.0574	mg/L	0.000508	0.001015	
* Beryllium, Total	6/1/22 11:30	6/1/22 20:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	6/1/22 11:30	6/1/22 20:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	6/1/22 11:30	6/1/22 20:22		1.015	0.000476	mg/L	0.000203	0.001015	J
* Cobalt, Total	6/1/22 11:30	6/1/22 20:22		1.015	0.00106	mg/L	0.000068	0.000203	
* Lead, Total	6/1/22 11:30	6/1/22 20:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	6/1/22 11:30	6/1/22 20:22		1.015	0.0325	mg/L	0.000152	0.000203	
* Molybdenum, Total	6/1/22 11:30	6/1/22 20:22		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	6/1/22 11:30	6/1/22 20:22		1.015	1.04	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5V

Location Code: WMWBARAP
Collected: 5/25/22 14:03
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10127

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 20:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 20:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	0.0578	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	0.000438	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	0.00106	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	0.0312	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	1.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 19:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 11:47		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 10:12	5/31/22 10:12		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 11:53	6/8/22 13:41		1	28.1	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	75.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	28.0	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 23:07	6/7/22 23:07		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5V

Location Code: WMWBARAP
Collected: 5/25/22 14:03
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10127

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	6/3/22 12:58	6/3/22 12:58		3	22.6	mg/L	1.50	3	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:56	6/8/22 12:56		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 15:13	6/7/22 15:13		1	2.91	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/25/22 14:00	5/25/22 14:00			114.39	uS/cm			FA
pH	5/25/22 14:00	5/25/22 14:00			5.88	SU			FA
Temperature	5/25/22 14:00	5/25/22 14:00			22.54	C			FA
Turbidity	5/25/22 14:00	5/25/22 14:00			1.64	NTU			FA
Sulfide	5/25/22 14:00	5/25/22 14:00			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:03

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BC10127

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC10128	Aluminum, Dissolved	mg/L	0.0000617	0.010	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0	
BC10129	Aluminum, Total	mg/L	0.00104	0.010	0.100	0.111	0.110	0.105	0.0850 to 0.115	111	70.0 to 130	0.905	20.0	
BC10128	Antimony, Dissolved	mg/L	0.000254	0.00100	0.100	0.0972	0.0969	0.0953	0.0850 to 0.115	97.2	70.0 to 130	0.309	20.0	
BC10129	Antimony, Total	mg/L	0.000293	0.00100	0.100	0.0932	0.0905	0.0899	0.0850 to 0.115	93.2	70.0 to 130	2.94	20.0	
BC10128	Arsenic, Dissolved	mg/L	0.0000147	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.995	20.0	
BC10129	Arsenic, Total	mg/L	0.0000146	0.000176	0.100	0.101	0.102	0.0997	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC10128	Barium, Dissolved	mg/L	-0.0000108	0.00100	0.100	0.128	0.123	0.105	0.0850 to 0.115	101	70.0 to 130	3.98	20.0	
BC10129	Barium, Total	mg/L	0.000	0.00100	0.100	0.102	0.0995	0.0984	0.0850 to 0.115	102	70.0 to 130	2.48	20.0	
BC10128	Beryllium, Dissolved	mg/L	0.000102	0.000880	0.100	0.100	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	0.300	20.0	
BC10129	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.107	0.105	0.106	0.0850 to 0.115	107	70.0 to 130	1.89	20.0	
BC10128	Boron, Dissolved	mg/L	-0.00005	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0	
BC10129	Boron, Total	mg/L	0.00291	0.0650	1.00	0.980	0.976	0.994	0.850 to 1.15	98.0	70.0 to 130	0.409	20.0	
BC10128	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BC10129	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.101	0.100	0.0980	0.0850 to 0.115	101	70.0 to 130	0.995	20.0	
BC10128	Calcium, Dissolved	mg/L	0.00171	0.152	5.00	6.14	6.22	4.66	4.25 to 5.75	91.8	70.0 to 130	1.29	20.0	
BC10129	Calcium, Total	mg/L	0.00594	0.152	5.00	4.77	4.72	4.79	4.25 to 5.75	95.4	70.0 to 130	1.05	20.0	
BC10129	Chloride	mg/L	0.117	1.00	10.0	10.5	10.5	9.33	9.00 to 11.0	105	80.0 to 120	0.00	20.0	
BC10128	Chromium, Dissolved	mg/L	0.0000018	0.000440	0.100	0.101	0.0985	0.103	0.0850 to 0.115	101	70.0 to 130	2.51	20.0	
BC10129	Chromium, Total	mg/L	-0.0000922	0.000440	0.100	0.102	0.102	0.0986	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC10128	Cobalt, Dissolved	mg/L	0.0000036	0.000147	0.100	0.106	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	1.90	20.0	
BC10129	Cobalt, Total	mg/L	-0.0000048	0.000147	0.100	0.103	0.102	0.0985	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BC10129	Fluoride	mg/L	0.0162	0.125	2.50	2.60	2.65	2.53	2.25 to 2.75	104	80.0 to 120	1.90	20.0	
BC10128	Iron, Dissolved	mg/L	0.000109	0.0176	0.2	0.205	0.206	0.197	0.170 to 0.230	96.8	70.0 to 130	0.487	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:03

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BC10127

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10129	Iron, Total	mg/L	0.000506	0.0176	0.2	0.196	0.194	0.200	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BC10128	Lead, Dissolved	mg/L	0.0000165	0.000147	0.100	0.112	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	5.50	20.0
BC10129	Lead, Total	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10128	Lithium, Dissolved	mg/L	0.000111	0.0154	0.200	0.221	0.221	0.214	0.170 to 0.230	110	70.0 to 130	0.00	20.0
BC10129	Lithium, Total	mg/L	0.000146	0.0154	0.200	0.188	0.186	0.187	0.170 to 0.230	94.0	70.0 to 130	1.07	20.0
BC10128	Magnesium, Dissolved	mg/L	0.00724	0.0462	5.00	6.28	6.31	5.16	4.25 to 5.75	104	70.0 to 130	0.477	20.0
BC10129	Magnesium, Total	mg/L	0.000221	0.0462	5.00	5.30	5.32	5.44	4.25 to 5.75	106	70.0 to 130	0.377	20.0
BC10128	Manganese, Dissolved	mg/L	0.0000281	0.0002	0.100	0.109	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	1.85	20.0
BC10129	Manganese, Total	mg/L	0.0000009	0.0002	0.100	0.105	0.104	0.101	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00419	0.00431	0.00424	0.00340 to 0.00460	105	70.0 to 130	2.82	20.0
BC10128	Molybdenum, Dissolved	mg/L	0.0000013	0.0002	0.100	0.102	0.0980	0.103	0.0850 to 0.115	102	70.0 to 130	4.00	20.0
BC10129	Molybdenum, Total	mg/L	0.0000005	0.0002	0.100	0.0979	0.0985	0.0983	0.0850 to 0.115	97.9	70.0 to 130	0.611	20.0
BC10128	Potassium, Dissolved	mg/L	-0.0248	0.367	10.0	10.8	10.7	10.1	8.50 to 11.5	97.7	70.0 to 130	0.930	20.0
BC10129	Potassium, Total	mg/L	-0.00785	0.367	10.0	10.1	10.2	9.95	8.50 to 11.5	101	70.0 to 130	0.985	20.0
BC10128	Selenium, Dissolved	mg/L	-0.0000481	0.00100	0.100	0.100	0.0999	0.102	0.0850 to 0.115	100	70.0 to 130	0.100	20.0
BC10129	Selenium, Total	mg/L	0.0000943	0.00100	0.100	0.102	0.103	0.103	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10128	Silicon, Dissolved	mg/L	-0.000059	0.0440	1.00	7.84	7.85	0.994	0.850 to 1.15	104	70.0 to 130	0.127	20.0
BC10129	Silicon, Total	mg/L	0.000536	0.0440	1.00	0.976	0.974	0.980	0.850 to 1.15	97.6	70.0 to 130	0.205	20.0
BC10128	Sodium, Dissolved	mg/L	0.0164	0.0660	5.00	13.2	13.1	5.30	4.25 to 5.75	108	70.0 to 130	0.760	20.0
BC10129	Sodium, Total	mg/L	0.0170	0.0660	5.00	4.63	4.58	4.63	4.25 to 5.75	92.6	70.0 to 130	1.09	20.0
BC10129	Sulfate	mg/L	-0.251	2.0	20.0	19.5	19.7	18.7	18.0 to 22.0	97.5	80.0 to 120	1.02	20.0
BC10128	Thallium, Dissolved	mg/L	0.0000059	0.000147	0.100	0.104	0.0986	0.103	0.0850 to 0.115	104	70.0 to 130	5.33	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:03

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BC10127

Sample	Analysis	Units	MB	MB Limit	Spike	MS	MSD	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10129	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1		103	80.0 to 120	0.966	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 14:03

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BC10127

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10128	Alkalinity, Total as CaCO3	mg/L					16.6	52.0	45.0 to 55.0			3.68	10.0
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 5/25/22 15:22
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10128

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 12:51		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 12:51		1.015	1.62	mg/L	0.070035	0.406		
* Iron, Total	5/31/22 10:50	6/2/22 12:51		1.015	0.00905	mg/L	0.008120	0.0406	J	
* Lithium, Total	5/31/22 10:50	6/2/22 12:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 14:28		1.015	1.20	mg/L	0.021315	0.406		
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:51		1	14.2	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 12:51		1.015	6.62	mg/L	0.02030	0.25375		
* Sodium, Total	5/31/22 10:50	6/2/22 12:51		1.015	6.62	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Dissolved	5/27/22 09:45	6/1/22 13:33		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	5/27/22 09:45	6/1/22 13:33		1.015	1.55	mg/L	0.070035	0.406		
* Iron, Dissolved	5/27/22 09:45	6/1/22 13:33		1.015	0.0113	mg/L	0.008120	0.0406	J	
* Lithium, Dissolved	5/27/22 09:45	6/1/22 13:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	5/27/22 09:45	6/1/22 13:33		1.015	1.09	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	5/27/22 09:45	6/1/22 13:33		1	14.6	mg/L				
Silicon, Dissolved	5/27/22 09:45	6/1/22 13:33		1.015	6.80	mg/L	0.02030	0.25375		
* Sodium, Dissolved	5/27/22 09:45	6/1/22 13:33		1.015	7.78	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 20:25		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.00926	mg/L	0.006090	0.01015	J	
* Arsenic, Total	6/1/22 11:30	6/1/22 20:25		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.0268	mg/L	0.000508	0.001015		
* Beryllium, Total	6/1/22 11:30	6/1/22 20:25		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.000306	mg/L	0.000068	0.000203		
* Chromium, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.000286	mg/L	0.000203	0.001015	J	
* Cobalt, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.000977	mg/L	0.000068	0.000203		
* Lead, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.0112	mg/L	0.000068	0.000203		
* Manganese, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.00532	mg/L	0.000152	0.000203		
* Molybdenum, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.000325	mg/L	0.000102	0.000203		
* Potassium, Total	6/1/22 11:30	6/1/22 20:25		1.015	0.987	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 5/25/22 15:22
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10128

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	6/1/22 11:30	6/1/22 20:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	6/1/22 11:30	6/1/22 20:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	0.000105	mg/L	0.000081	0.000203	J
* Barium, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	0.0272	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	0.000197	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	0.000245	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	0.000938	mg/L	0.000068	0.000203	
* Lead, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	0.00662	mg/L	0.000068	0.000203	
* Manganese, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	0.00511	mg/L	0.000152	0.000203	
* Molybdenum, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	0.000319	mg/L	0.000102	0.000203	
* Potassium, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	1.03	mg/L	0.169505	0.5075	
* Selenium, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	5/31/22 14:15	5/31/22 19:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 11:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: ELH							
* Nitrogen, Nitrate/Nitrite	5/31/22 10:13	5/31/22 10:13		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity, Total as CaCO3	6/8/22 11:53	6/8/22 13:41		1	16.0	mg/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	5/31/22 11:22	6/1/22 14:18		1	40.7	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	16.0	mg/L			
Carbonate Alkalinity, (calc.)	6/8/22 11:53	6/8/22 13:41		1	Not Detected	mg/L		0.5	
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 23:23	6/7/22 23:23		1	Not Detected	mg/L	1.00	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 5/25/22 15:22
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10128

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	6/3/22 12:53	6/3/22 12:53		1	6.63	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:57	6/8/22 12:57		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 15:14	6/7/22 15:14		1	1.27	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	5/25/22 15:18	5/25/22 15:18			52.89	uS/cm			FA
pH	5/25/22 15:18	5/25/22 15:18			4.57	SU			FA
Temperature	5/25/22 15:18	5/25/22 15:18			21.47	C			FA
Turbidity	5/25/22 15:18	5/25/22 15:18			0.87	NTU			FA
Sulfide	5/25/22 15:18	5/25/22 15:18			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:22

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BC10128

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC10128	Aluminum, Dissolved	mg/L	0.0000617	0.010	0.100	0.105	0.102	0.103	0.0850 to 0.115	105	70.0 to 130	2.90	20.0	
BC10129	Aluminum, Total	mg/L	0.00104	0.010	0.100	0.111	0.110	0.105	0.0850 to 0.115	111	70.0 to 130	0.905	20.0	
BC10128	Antimony, Dissolved	mg/L	0.000254	0.00100	0.100	0.0972	0.0969	0.0953	0.0850 to 0.115	97.2	70.0 to 130	0.309	20.0	
BC10129	Antimony, Total	mg/L	0.000293	0.00100	0.100	0.0932	0.0905	0.0899	0.0850 to 0.115	93.2	70.0 to 130	2.94	20.0	
BC10128	Arsenic, Dissolved	mg/L	0.0000147	0.000176	0.100	0.100	0.101	0.103	0.0850 to 0.115	99.9	70.0 to 130	0.995	20.0	
BC10129	Arsenic, Total	mg/L	0.0000146	0.000176	0.100	0.101	0.102	0.0997	0.0850 to 0.115	101	70.0 to 130	0.985	20.0	
BC10128	Barium, Dissolved	mg/L	-0.0000108	0.00100	0.100	0.128	0.123	0.105	0.0850 to 0.115	101	70.0 to 130	3.98	20.0	
BC10129	Barium, Total	mg/L	0.000	0.00100	0.100	0.102	0.0995	0.0984	0.0850 to 0.115	102	70.0 to 130	2.48	20.0	
BC10128	Beryllium, Dissolved	mg/L	0.000102	0.000880	0.100	0.100	0.0997	0.101	0.0850 to 0.115	100	70.0 to 130	0.300	20.0	
BC10129	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.107	0.105	0.106	0.0850 to 0.115	107	70.0 to 130	1.89	20.0	
BC10128	Boron, Dissolved	mg/L	-0.00005	0.0650	1.00	1.02	1.03	1.02	0.850 to 1.15	102	70.0 to 130	0.976	20.0	
BC10129	Boron, Total	mg/L	0.00291	0.0650	1.00	0.980	0.976	0.994	0.850 to 1.15	98.0	70.0 to 130	0.409	20.0	
BC10128	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.102	0.100	0.102	0.0850 to 0.115	102	70.0 to 130	1.98	20.0	
BC10129	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.101	0.100	0.0980	0.0850 to 0.115	101	70.0 to 130	0.995	20.0	
BC10128	Calcium, Dissolved	mg/L	0.00171	0.152	5.00	6.14	6.22	4.66	4.25 to 5.75	91.8	70.0 to 130	1.29	20.0	
BC10129	Calcium, Total	mg/L	0.00594	0.152	5.00	4.77	4.72	4.79	4.25 to 5.75	95.4	70.0 to 130	1.05	20.0	
BC10129	Chloride	mg/L	0.117	1.00	10.0	10.5	10.5	9.33	9.00 to 11.0	105	80.0 to 120	0.00	20.0	
BC10128	Chromium, Dissolved	mg/L	0.0000018	0.000440	0.100	0.101	0.0985	0.103	0.0850 to 0.115	101	70.0 to 130	2.51	20.0	
BC10129	Chromium, Total	mg/L	-0.0000922	0.000440	0.100	0.102	0.102	0.0986	0.0850 to 0.115	102	70.0 to 130	0.00	20.0	
BC10128	Cobalt, Dissolved	mg/L	0.0000036	0.000147	0.100	0.106	0.104	0.106	0.0850 to 0.115	105	70.0 to 130	1.90	20.0	
BC10129	Cobalt, Total	mg/L	-0.0000048	0.000147	0.100	0.103	0.102	0.0985	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BC10129	Fluoride	mg/L	0.0162	0.125	2.50	2.60	2.65	2.53	2.25 to 2.75	104	80.0 to 120	1.90	20.0	
BC10128	Iron, Dissolved	mg/L	0.000109	0.0176	0.2	0.205	0.206	0.197	0.170 to 0.230	96.8	70.0 to 130	0.487	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:22

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BC10128

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC10129	Iron, Total	mg/L	0.000506	0.0176	0.2	0.196	0.194	0.200	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BC10128	Lead, Dissolved	mg/L	0.0000165	0.000147	0.100	0.112	0.106	0.105	0.0850 to 0.115	105	70.0 to 130	5.50	20.0
BC10129	Lead, Total	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10128	Lithium, Dissolved	mg/L	0.000111	0.0154	0.200	0.221	0.221	0.214	0.170 to 0.230	110	70.0 to 130	0.00	20.0
BC10129	Lithium, Total	mg/L	0.000146	0.0154	0.200	0.188	0.186	0.187	0.170 to 0.230	94.0	70.0 to 130	1.07	20.0
BC10128	Magnesium, Dissolved	mg/L	0.00724	0.0462	5.00	6.28	6.31	5.16	4.25 to 5.75	104	70.0 to 130	0.477	20.0
BC10129	Magnesium, Total	mg/L	0.000221	0.0462	5.00	5.30	5.32	5.44	4.25 to 5.75	106	70.0 to 130	0.377	20.0
BC10128	Manganese, Dissolved	mg/L	0.0000281	0.0002	0.100	0.109	0.107	0.106	0.0850 to 0.115	104	70.0 to 130	1.85	20.0
BC10129	Manganese, Total	mg/L	0.0000009	0.0002	0.100	0.105	0.104	0.101	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00419	0.00431	0.00424	0.00340 to 0.00460	105	70.0 to 130	2.82	20.0
BC10128	Molybdenum, Dissolved	mg/L	0.0000013	0.0002	0.100	0.102	0.0980	0.103	0.0850 to 0.115	102	70.0 to 130	4.00	20.0
BC10129	Molybdenum, Total	mg/L	0.0000005	0.0002	0.100	0.0979	0.0985	0.0983	0.0850 to 0.115	97.9	70.0 to 130	0.611	20.0
BC10128	Potassium, Dissolved	mg/L	-0.0248	0.367	10.0	10.8	10.7	10.1	8.50 to 11.5	97.7	70.0 to 130	0.930	20.0
BC10129	Potassium, Total	mg/L	-0.00785	0.367	10.0	10.1	10.2	9.95	8.50 to 11.5	101	70.0 to 130	0.985	20.0
BC10128	Selenium, Dissolved	mg/L	-0.0000481	0.00100	0.100	0.100	0.0999	0.102	0.0850 to 0.115	100	70.0 to 130	0.100	20.0
BC10129	Selenium, Total	mg/L	0.0000943	0.00100	0.100	0.102	0.103	0.103	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10128	Silicon, Dissolved	mg/L	-0.000059	0.0440	1.00	7.84	7.85	0.994	0.850 to 1.15	104	70.0 to 130	0.127	20.0
BC10129	Silicon, Total	mg/L	0.000536	0.0440	1.00	0.976	0.974	0.980	0.850 to 1.15	97.6	70.0 to 130	0.205	20.0
BC10128	Sodium, Dissolved	mg/L	0.0164	0.0660	5.00	13.2	13.1	5.30	4.25 to 5.75	108	70.0 to 130	0.760	20.0
BC10129	Sodium, Total	mg/L	0.0170	0.0660	5.00	4.63	4.58	4.63	4.25 to 5.75	92.6	70.0 to 130	1.09	20.0
BC10129	Sulfate	mg/L	-0.251	2.0	20.0	19.5	19.7	18.7	18.0 to 22.0	97.5	80.0 to 120	1.02	20.0
BC10128	Thallium, Dissolved	mg/L	0.0000059	0.000147	0.100	0.104	0.0986	0.103	0.0850 to 0.115	104	70.0 to 130	5.33	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:22

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BC10128

Sample	Analysis	Units	MB	MB				Standard	Standard		Rec		Prec	Limit	
				Limit	Spike	MS	MSD		Limit	Rec	Limit	Prec			
BC10129	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115		106	70.0 to 130		1.87	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1			103	80.0 to 120		0.966	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 5/25/22 15:22

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BC10128

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10128	Alkalinity, Total as CaCO3	mg/L					16.6	52.0	45.0 to 55.0			3.68	10.0
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10126	Solids, Dissolved	mg/L	1.00	25.0			258	52.0	40.0 to 60.0			2.35	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-2

Location Code: WMWBARAPFB
Collected: 5/25/22 15:45
Customer ID:
Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10129

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: RDA			Preparation Method: EPA 1638					
* Boron, Total	5/31/22 10:50	6/2/22 12:54		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	5/31/22 10:50	6/2/22 12:54		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	5/31/22 10:50	6/2/22 12:54		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	5/31/22 10:50	6/2/22 12:54		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	5/31/22 10:50	6/2/22 14:31		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	5/31/22 10:50	6/2/22 12:54		1	Not Detected	mg/L				
Silicon, Total	5/31/22 10:50	6/2/22 12:54		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	5/31/22 10:50	6/2/22 12:54		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000152	0.000203	U	
* Molybdenum, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	6/1/22 11:30	6/1/22 20:29		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	6/6/22 13:52	6/7/22 11:52		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: ELH								
* Nitrogen, Nitrate/Nitrite	5/31/22 10:14	5/31/22 10:14		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	6/1/22 10:39	6/2/22 13:18		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-2

Location Code: WMWBARAPFB

Collected: 5/25/22 15:45

Customer ID:

Submittal Date: 5/26/22 12:38

Laboratory ID Number: BC10129

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: ELH							
* Total Organic Carbon	6/7/22 23:45	6/7/22 23:45		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	6/3/22 12:54	6/3/22 12:54		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	6/8/22 12:58	6/8/22 12:58		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	6/7/22 15:15	6/7/22 15:15		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/25/22 15:45

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BC10129

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BC10129	Aluminum, Total	mg/L	0.00104	0.010	0.100	0.111	0.110	0.105	0.0850 to 0.115	111	70.0 to 130	0.905	20.0
BC10129	Antimony, Total	mg/L	0.000293	0.00100	0.100	0.0932	0.0905	0.0899	0.0850 to 0.115	93.2	70.0 to 130	2.94	20.0
BC10129	Arsenic, Total	mg/L	0.0000146	0.000176	0.100	0.101	0.102	0.0997	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC10129	Barium, Total	mg/L	0.000	0.00100	0.100	0.102	0.0995	0.0984	0.0850 to 0.115	102	70.0 to 130	2.48	20.0
BC10129	Beryllium, Total	mg/L	0.0000199	0.000880	0.100	0.107	0.105	0.106	0.0850 to 0.115	107	70.0 to 130	1.89	20.0
BC10129	Boron, Total	mg/L	0.00291	0.0650	1.00	0.980	0.976	0.994	0.850 to 1.15	98.0	70.0 to 130	0.409	20.0
BC10129	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.101	0.100	0.0980	0.0850 to 0.115	101	70.0 to 130	0.995	20.0
BC10129	Calcium, Total	mg/L	0.00594	0.152	5.00	4.77	4.72	4.79	4.25 to 5.75	95.4	70.0 to 130	1.05	20.0
BC10129	Chloride	mg/L	0.117	1.00	10.0	10.5	10.5	9.33	9.00 to 11.0	105	80.0 to 120	0.00	20.0
BC10129	Chromium, Total	mg/L	-0.0000922	0.000440	0.100	0.102	0.102	0.0986	0.0850 to 0.115	102	70.0 to 130	0.00	20.0
BC10129	Cobalt, Total	mg/L	-0.0000048	0.000147	0.100	0.103	0.102	0.0985	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC10129	Fluoride	mg/L	0.0162	0.125	2.50	2.60	2.65	2.53	2.25 to 2.75	104	80.0 to 120	1.90	20.0
BC10129	Iron, Total	mg/L	0.000506	0.0176	0.2	0.196	0.194	0.200	0.170 to 0.230	98.0	70.0 to 130	1.03	20.0
BC10129	Lead, Total	mg/L	0.0000043	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	104	70.0 to 130	0.957	20.0
BC10129	Lithium, Total	mg/L	0.000146	0.0154	0.200	0.188	0.186	0.187	0.170 to 0.230	94.0	70.0 to 130	1.07	20.0
BC10129	Magnesium, Total	mg/L	0.000221	0.0462	5.00	5.30	5.32	5.44	4.25 to 5.75	106	70.0 to 130	0.377	20.0
BC10129	Manganese, Total	mg/L	0.0000009	0.0002	0.100	0.105	0.104	0.101	0.0850 to 0.115	105	70.0 to 130	0.957	20.0
BC10129	Mercury, Total by CVAA	mg/L	0.000124	0.000500	0.004	0.00419	0.00431	0.00424	0.00340 to 0.00460	105	70.0 to 130	2.82	20.0
BC10129	Molybdenum, Total	mg/L	0.0000005	0.0002	0.100	0.0979	0.0985	0.0983	0.0850 to 0.115	97.9	70.0 to 130	0.611	20.0
BC10129	Potassium, Total	mg/L	-0.00785	0.367	10.0	10.1	10.2	9.95	8.50 to 11.5	101	70.0 to 130	0.985	20.0
BC10129	Selenium, Total	mg/L	0.0000943	0.00100	0.100	0.102	0.103	0.103	0.0850 to 0.115	102	70.0 to 130	0.976	20.0
BC10129	Silicon, Total	mg/L	0.000536	0.0440	1.00	0.976	0.974	0.980	0.850 to 1.15	97.6	70.0 to 130	0.205	20.0
BC10129	Sodium, Total	mg/L	0.0170	0.0660	5.00	4.63	4.58	4.63	4.25 to 5.75	92.6	70.0 to 130	1.09	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 5/25/22 15:45

Customer ID:

Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BC10129

Sample	Analysis	Units	MB	MB				MSD	Standard	Standard Limit	Rec		Prec Limit
				Limit	Spike	MS	MSD				Rec	Limit	
BC10129	Sulfate	mg/L	-0.251	2.0	20.0	19.5	19.7	18.7	18.0 to 22.0	97.5	80.0 to 120	1.02	20.0
BC10129	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.106	0.108	0.107	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC10129	Total Organic Carbon	mg/L	0.217	1.00	10.0	10.3	10.4	25.1		103	80.0 to 120	0.966	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 5/25/22 15:45
Customer ID:
Delivery Date: 5/26/22 12:38

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BC10129

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC10129	Nitrogen, Nitrate/Nitrite	mg/L as N	-0.01	0.200	2.00	1.90	-0.030	1.90	1.80 to 2.20	95.0	90.0 to 110	0.00	15.0
BC10129	Solids, Dissolved	mg/L	1.00	25.0			0.0000	51.0	40.0 to 60.0			0.00	10.0

Comments:

Definitions

Project Number: WMWBARAP_1367

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC pH < 2 SU. BC 05/25/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-20H	05/23/2022	15:48	7	Groundwater		BC09974
MW-8V	05/23/2022	17:26	7	Groundwater		BC09975
MW-22H	05/24/2022	09:14	7	Groundwater		BC09976
MW-8	05/24/2022	10:50	7	Groundwater		BC09977
FB-1	05/24/2022	11:15	5	Field Blank		BC09978
MW-10	05/24/2022	12:46	7	Groundwater		BC09979
EB-1	05/24/2022	13:43	5	Equipment Blank		BC09980
MW-10V	05/24/2022	14:44	7	Groundwater		BC09981
MW-13	05/24/2022	15:55	7	Groundwater		BC09982
MW-13 dup	05/24/2022	15:55	7	Sample Duplicate		BC09983

Relinquished By	Received By	Date/Time
		05/25/2022 09:35
		05/25/2022 13:53

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>		
Turbidity ID	3901-20010-2-2		Cooler Temp	1.6 °C
Sample Event	1367		Thermometer ID	7044-38281-2-1
			pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrite/Nitrate;TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC pH < 2 SU. BC 05/25/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18H	05/23/2022	16:14	7	Groundwater		BC09984
MW-11	05/23/2022	17:20	7	Groundwater		BC09985
MW-19H	05/24/2022	09:27	7	Groundwater		BC09986
MW-15V	05/24/2022	10:57	7	Groundwater		BC09987
MW-7	05/24/2022	13:10	7	Groundwater		BC09988
MW-7 DUP	05/24/2022	13:10	7	Sample Duplicate		BC09989
FB-3	05/24/2022	14:05	5	Field Blank		BC09990
MW-7V	05/24/2022	14:14	7	Groundwater		BC09991
MW-9	05/24/2022	15:15	7	Groundwater		BC09992
MW-14V	05/24/2022	16:24	7	Groundwater		BC09993

Relinquished By	Received By	Date/Time
		05/25/2022 09:50
		05/25/2022 13:41

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1367		
Cooler Temp	1.6 °C		
		Thermometer ID	7044-38281-2-1
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: N/N, TOC pH < 2 SU. BC 05/25/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12	05/23/2022	16:15	7	Groundwater		BC09994
MW-12V	05/23/2022	17:05	7	Groundwater		BC09995
MW-20V	05/24/2022	09:05	7	Groundwater		BC09996
MW-20V Dup	05/24/2022	09:05	7	Sample Duplicate		BC09997
MW-24H	05/24/2022	10:33	7	Groundwater		BC09998
MW-1	05/24/2022	12:58	7	Groundwater		BC09999
MW-1V	05/24/2022	15:15	7	Groundwater		BC10000
MW-2	05/24/2022	16:58	7	Groundwater		BC10001

Relinquished By	Received By	Date/Time
		05/25/2022 10:00
		05/25/2022 13:40

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1367	
	Cooler Temp	1.7 °C
	Thermometer ID	7044-38281-2-1
	pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete Outside Lab
 Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer	
Collector	Anthony Goggins	Requested By	Greg Dyer	
		Location	Barry Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrite/Nitrate;TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments	N/N, TOC pH < 2 SU. BC 05/26/2022
----------	-----------------------------------

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-13V	05/25/2022	10:52	7	Groundwater		BC10111
MW-14	05/25/2022	11:55	7	Groundwater		BC10112
MW-15	05/25/2022	13:07	7	Groundwater		BC10113
MW-15DUP	05/25/2022	13:07	7	Sample Duplicate		BC10114
MW-16V	05/25/2022	14:06	7	Groundwater		BC10115
MW-16	05/25/2022	14:54	7	Groundwater		BC10116
MW-4	05/25/2022	15:35	7	Groundwater		BC10117

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Bush Cotton</i>	05/26/2022 11:54

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1367	
	Cooler Temp	2.2 °C
	Thermometer ID	7044-38281-2-1
	pH Strip ID	10275-59506-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete

 Outside Lab

 Lab Complete

 Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
	Collector	Dallas Gentry		Requested By	Greg Dyer
			Location	Barry Ash Pond	

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments	N/N, TOC pH < 2 SU. BC 05/26/2022
----------	-----------------------------------

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17V	05/25/2022	10:39	7	Groundwater		BC10118
MW-17H	05/25/2022	11:23	7	Groundwater		BC10119
MW-23V	05/25/2022	12:50	7	Groundwater		BC10120
MW-23H	05/25/2022	13:53	7	Groundwater		BC10121
MW-3	05/25/2022	15:05	7	Groundwater		BC10122
FB-4	05/25/2022	15:20	5	Field Blank		BC10123

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Bushy Cotton</i>	05/26/2022 11:55

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1367	
Cooler Temp	1.3 °C	
Thermometer ID	7044-38281-2-1	
pH Strip ID	10275-59506-10-2	



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete

Outside Lab

Lab Complete

Lab ETA

Requested Complete Date
Collector

Results To
Requested By
Location

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS	500 mL	7	Alkalinity	250 mL
	2	Dissolved Metals	500 mL	4	Nitrates/Nitrites, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-25V	05/25/2022	10:50	7	Groundwater		BC10124
MW-25H	05/25/2022	11:40	7	Groundwater		BC10125
MW-5	05/25/2022	13:05	7	Groundwater		BC10126
MW-5V	05/25/2022	14:03	7	Groundwater		BC10127
MW-6	05/25/2022	15:22	7	Groundwater		BC10128
FB-2	05/25/2022	15:45	5	Field Blank		BC10129

Relinquished By 	Received By 	Date/Time 05/26/2022 11:54

SmarTroll ID	7586-41446-5-5
Turbidity ID	4677-23342-4-1
Sample Event	1367

All metals and radiological bottles have pH < 2

Cooler Temp	1.2 °C
Thermometer ID	7044-38281-2-1
pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By
		Location	Barry Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: Radium MS/MSD collected at MW-8V

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-20H	05/23/2022	15:48	1	Groundwater		BC10007
MW-8V	05/23/2022	17:26	3	Groundwater		BC10008
MW-22H	05/24/2022	09:14	1	Groundwater		BC10009
MW-8	05/24/2022	10:50	1	Groundwater		BC10010
FB-1	05/24/2022	11:15	1	Field Blank		BC10011
MW-10	05/24/2022	12:46	1	Groundwater		BC10012
EB-1	05/24/2022	13:43	1	Equipment Blank		BC10013
MW-10V	05/24/2022	14:44	1	Groundwater		BC10014
MW-13	05/24/2022	15:55	1	Groundwater		BC10015
MW-13 dup	05/24/2022	15:55	1	Sample Duplicate		BC10016

Relinquished By	Received By	Date/Time
		05/25/2022 09:35
		05/25/2022 13:43

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	3901-20010-2-2		
Sample Event	1367		
		Cooler Temp	NA
		Thermometer ID	NA
		pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: MS/MSD collected @ MW-11

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18H	05/23/2022	16:14	1	Groundwater		BC10017
MW-11	05/23/2022	17:20	3	Groundwater		BC10018
MW-19H	05/24/2022	09:27	1	Groundwater		BC10019
MW-15V	05/24/2022	10:57	1	Groundwater		BC10020
MW-7	05/24/2022	13:10	1	Groundwater		BC10021
MW-7 DUP	05/24/2022	13:10	1	Sample Duplicate		BC10022
FB-3	05/24/2022	14:05	1	Field Blank		BC10023
MW-7V	05/24/2022	14:14	1	Groundwater		BC10024
MW-9	05/24/2022	15:15	1	Groundwater		BC10025
MW-14V	05/24/2022	16:24	1	Groundwater		BC10026

Relinquished By	Received By	Date/Time
		05/25/2022 09:50
		05/25/2022 13:40

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-2-2	
Sample Event	1367	
Cooler Temp	NA	
Thermometer ID	NA	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab





Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Barry Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments MS/MSD collected @ MW-1V

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-12	05/23/2022	16:15	1	Groundwater		BC10027
MW-12V	05/23/2022	17:05	1	Groundwater		BC10028
MW-20V	05/24/2022	09:05	1	Groundwater		BC10029
MW-20V Dup	05/24/2022	09:05	1	Sample Duplicate		BC10030
MW-24H	05/24/2022	10:33	1	Groundwater		BC10031
MW-1	05/24/2022	12:58	1	Groundwater		BC10032
MW-1V	05/24/2022	15:15	3	Groundwater		BC10033
MW-2	05/24/2022	16:58	1	Groundwater		BC10034

Relinquished By	Received By	Date/Time
		05/25/2022 10:00
		05/25/2022 13:40

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	4677-23342-4-1	
Sample Event	1367	
Cooler Temp	NA	
Thermometer ID	NA	
pH Strip ID	9772-56585-100-7	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

 Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-13V	05/25/2022	10:52	1	Groundwater		BC10130
MW-14	05/25/2022	11:55	1	Groundwater		BC10131
MW-15	05/25/2022	13:07	1	Groundwater		BC10132
MW-15DUP	05/25/2022	13:07	1	Sample Duplicate		BC10133
MW-16V	05/25/2022	14:06	1	Groundwater		BC10134
MW-16	05/25/2022	14:54	1	Groundwater		BC10135
MW-4	05/25/2022	15:35	1	Groundwater		BC10136

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Bruce Cotton</i>	05/26/2022 11:53

SmarTroll ID	7586-41442-5-1	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1367		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	10275-59506-10-2

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody
Groundwater
 APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By
		Location	Barry Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17V	05/25/2022	10:39	1	Groundwater		BC10137
MW-17H	05/25/2022	11:23	1	Groundwater		BC10138
MW-23V	05/25/2022	12:50	1	Groundwater		BC10139
MW-23H	05/25/2022	13:53	1	Groundwater		BC10140
MW-3	05/25/2022	15:05	1	Groundwater		BC10141
FB-4	05/25/2022	15:20	1	Field Blank		BC10142

Relinquished By	Received By	Date/Time
<i>M. Gentry</i>	<i>B. Cotton</i>	05/26/2022 11:55

SmarTroll ID	7586-41443-5-2	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>
Turbidity ID	3901-20010-2-2	
Sample Event	1367	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	10275-59506-10-2	

Bottles/Pre-Preserved Bottles are provided by the GTL



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By
		Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-25V	05/25/2022	10:50	1	Groundwater		BC10143
MW-25H	05/25/2022	11:40	1	Groundwater		BC10144
MW-5	05/25/2022	13:05	1	Groundwater		BC10145
MW-5V	05/25/2022	14:03	1	Groundwater		BC10146
MW-6	05/25/2022	15:22	1	Groundwater		BC10147
FB-2	05/25/2022	15:45	1	Field Blank		BC10148

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Bushy Catton</i>	05/26/2022 11:54

SmarTroll ID	7586-41446-5-5	All metals and radiological bottles have pH < 2 <input checked="" type="checkbox"/>		
Turbidity ID	4677-23342-4-1		Cooler Temp	N/A
Sample Event	1367		Thermometer ID	N/A
			pH Strip ID	9772-56585-100-7

Bottles/Pre-Preserved Bottles are provided by the GTL

July 13, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWBARAP_1367
Pace Project No.: 30494074

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on June 02, 2022. 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

(Greensburg, PA) - Revision 1 - This report replaces the 7/12/22 report. This project was revised on 7/13/22 to revise a sample ID per client request.

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

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: WMWBARAP_1367
Pace Project No.: 30494074

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
Guam Certification
Florida: Cert E871149 SEKS WET
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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30494074001	BC10007 MW-20H	Water	05/23/22 15:48	06/02/22 10:15
30494074002	BC10008 MW-8V	Water	05/23/22 17:26	06/02/22 10:15
30494074003	BC10008 MW-8V MS	Water	05/23/22 17:26	06/02/22 10:15
30494074004	BC10008 MW-8V MSD	Water	05/23/22 17:26	06/02/22 10:15
30494074005	BC10009 MW-22H	Water	05/24/22 09:14	06/02/22 10:15
30494074006	BC10010 MW-8	Water	05/24/22 10:50	06/02/22 10:15
30494074007	BC10011 FB-1	Water	05/24/22 11:15	06/02/22 10:15
30494074008	BC10012 MW-10	Water	05/24/22 12:46	06/02/22 10:15
30494074009	BC10013 EB-1	Water	05/24/22 13:43	06/02/22 10:15
30494074010	BC10014 MW-10V	Water	05/24/22 14:44	06/02/22 10:15
30494074011	BC10015 MW-13	Water	05/24/22 15:55	06/02/22 10:15
30494074012	BC10016 MW-13 Dup	Water	05/24/22 15:55	06/02/22 10:15
30494074013	BC10017 MW-18H	Water	05/23/22 16:14	06/02/22 10:15
30494074014	BC10018 MW-11	Water	05/23/22 17:20	06/02/22 10:15
30494074015	BC10018 MW-11 MS	Water	05/23/22 17:20	06/02/22 10:15
30494074016	BC10018 MW-11 MSD	Water	05/23/22 17:20	06/02/22 10:15
30494074017	BC10019 MW-19H	Water	05/24/22 09:27	06/02/22 10:15
30494074018	BC10020 MW-15V	Water	05/24/22 10:57	06/02/22 10:15
30494074019	BC10021 MW-7	Water	05/24/22 13:10	06/02/22 10:15
30494074020	BC10022 MW-7 DUP	Water	05/24/22 13:10	06/02/22 10:15
30494074021	BC10023 FB-3	Water	05/24/22 14:05	06/02/22 10:15
30494074022	BC10024 MW-7V	Water	05/24/22 14:14	06/02/22 10:15
30494074023	BC10025 MW-9	Water	05/24/22 15:15	06/02/22 10:15
30494074024	BC10026 MW-14V	Water	05/24/22 16:24	06/02/22 10:15
30494074025	BC10027 MW-12	Water	05/23/22 16:15	06/02/22 10:15
30494074026	BC10028 MW-12V	Water	05/23/22 17:05	06/02/22 10:15
30494074027	BC10029 MW-20V	Water	05/24/22 09:05	06/02/22 10:15
30494074028	BC10030 MW-20V Dup	Water	05/24/22 09:05	06/02/22 10:15
30494074029	BC10031 MW-24H	Water	05/24/22 10:33	06/02/22 10:15
30494074030	BC10032 MW-1	Water	05/24/22 12:58	06/02/22 10:15
30494074031	BC10033 MW-1V	Water	05/24/22 15:15	06/02/22 10:15
30494074032	BC10033 MW-1V MS	Water	05/24/22 15:15	06/02/22 10:15
30494074033	BC10033 MW-1V MSD	Water	05/24/22 15:15	06/02/22 10:15
30494074034	BC10034 MW-2	Water	05/24/22 16:58	06/02/22 10:15
30494074035	BC10130 MW-13V	Water	05/25/22 10:52	06/02/22 10:15
30494074036	BC10131 MW-14	Water	05/25/22 11:55	06/02/22 10:15
30494074037	BC10132 MW-15	Water	05/25/22 13:07	06/02/22 10:15

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: WMWBARAP_1367
Pace Project No.: 30494074

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30494074038	BC10133 MW-15 Dup	Water	05/25/22 13:07	06/02/22 10:15
30494074039	BC10134 MW-16V	Water	05/25/22 14:06	06/02/22 10:15
30494074040	BC10135 MW-16	Water	05/25/22 14:54	06/02/22 10:15
30494074041	BC10136 MW-4	Water	05/25/22 15:35	06/02/22 10:15
30494074042	BC10137 MW-17V	Water	05/25/22 10:39	06/02/22 10:15
30494074043	BC10138 MW-17H	Water	05/25/22 11:23	06/02/22 10:15
30494074044	BC10139 MW-23V	Water	05/25/22 12:50	06/02/22 10:15
30494074045	BC10140 MW-23H	Water	05/25/22 13:53	06/02/22 10:15
30494074046	BC10141 MW-3	Water	05/25/22 15:05	06/02/22 10:15
30494074047	BC10142 FB-4	Water	05/25/22 15:20	06/02/22 10:15
30494074048	BC10143 MW-25V	Water	05/25/22 10:50	06/02/22 10:15
30494074049	BC10144 MW-25H	Water	05/25/22 11:40	06/02/22 10:15
30494074050	BC10145 MW-5	Water	05/25/22 13:05	06/02/22 10:15
30494074051	BC10146 MW-5V	Water	05/25/22 14:03	06/02/22 10:15
30494074052	BC10147 MW-6	Water	05/25/22 15:22	06/02/22 10:15
30494074053	BC10148 FB-2	Water	05/25/22 15:45	06/02/22 10:15

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1367
Pace Project No.: 30494074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30494074001	BC10007 MW-20H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074002	BC10008 MW-8V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074003	BC10008 MW-8V MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30494074004	BC10008 MW-8V MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30494074005	BC10009 MW-22H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074006	BC10010 MW-8	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074007	BC10011 FB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074008	BC10012 MW-10	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074009	BC10013 EB-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074010	BC10014 MW-10V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074011	BC10015 MW-13	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074012	BC10016 MW-13 Dup	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074013	BC10017 MW-18H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1367
Pace Project No.: 30494074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30494074014	BC10018 MW-11	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074015	BC10018 MW-11 MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30494074016	BC10018 MW-11 MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30494074017	BC10019 MW-19H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074018	BC10020 MW-15V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074019	BC10021 MW-7	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074020	BC10022 MW-7 DUP	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074021	BC10023 FB-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074022	BC10024 MW-7V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074023	BC10025 MW-9	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074024	BC10026 MW-14V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074025	BC10027 MW-12	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074026	BC10028 MW-12V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1367
Pace Project No.: 30494074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30494074027	BC10029 MW-20V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074028	BC10030 MW-20V Dup	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074029	BC10031 MW-24H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074030	BC10032 MW-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074031	BC10033 MW-1V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074032	BC10033 MW-1V MS	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30494074033	BC10033 MW-1V MSD	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
30494074034	BC10034 MW-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074035	BC10130 MW-13V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074036	BC10131 MW-14	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074037	BC10132 MW-15	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074038	BC10133 MW-15 Dup	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074039	BC10134 MW-16V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1367
Pace Project No.: 30494074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30494074040	BC10135 MW-16	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074041	BC10136 MW-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074042	BC10137 MW-17V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074043	BC10138 MW-17H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074044	BC10139 MW-23V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074045	BC10140 MW-23H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074046	BC10141 MW-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074047	BC10142 FB-4	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074048	BC10143 MW-25V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074049	BC10144 MW-25H	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074050	BC10145 MW-5	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074051	BC10146 MW-5V	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30494074052	BC10147 MW-6	EPA 9315	JC2	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1367
Pace Project No.: 30494074

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30494074053	BC10148 FB-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARAP_1367

Pace Project No.: 30494074

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: July 13, 2022

General Information:

53 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARAP_1367

Pace Project No.: 30494074

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: July 13, 2022

General Information:

53 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARAP_1367

Pace Project No.: 30494074

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: July 13, 2022

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10007 MW-20H **Lab ID: 30494074001** Collected: 05/23/22 15:48 Received: 06/02/22 10:15 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 9315	0.242U ± 0.172 (0.282) C:89% T:NA	pCi/L	07/08/22 16:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.415U ± 0.362 (0.726) C:68% T:91%	pCi/L	07/07/22 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.657U ± 0.534 (1.01)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10008 MW-8V **Lab ID: 30494074002** Collected: 05/23/22 17:26 Received: 06/02/22 10:15 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 9315	0.449 ± 0.218 (0.268) C:89% T:NA	pCi/L	07/08/22 16:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.684U ± 0.391 (0.706) C:65% T:97%	pCi/L	07/07/22 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.13 ± 0.609 (0.974)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10008 MW-8V MS **Lab ID: 30494074003** Collected: 05/23/22 17:26 Received: 06/02/22 10:15 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 9315	98.21 %REC ± NA (NA) C:NA T:NA	pCi/L	07/08/22 16:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	107.38 %REC ± NA (NA) C:NA T:NA	pCi/L	07/07/22 14:31	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10008 MW-8V MSD **Lab ID: 30494074004** Collected: 05/23/22 17:26 Received: 06/02/22 10:15 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 9315	102.23 %REC 4.01 RPD ± NA (NA) C:NA T:NA	pCi/L	07/08/22 16:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	91.99 %REC 15.43 RPD ± NA (NA) C:NA T:NA	pCi/L	07/07/22 14:31	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10009 MW-22H **Lab ID: 30494074005** Collected: 05/24/22 09:14 Received: 06/02/22 10:15 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 9315	0.368 ± 0.205 (0.297) C:85% T:NA	pCi/L	07/08/22 16:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.288U ± 0.322 (0.669) C:65% T:95%	pCi/L	07/07/22 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.656U ± 0.527 (0.966)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10010 MW-8 **Lab ID: 30494074006** Collected: 05/24/22 10:50 Received: 06/02/22 10:15 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 9315	0.203U ± 0.201 (0.398) C:87% T:NA	pCi/L	07/08/22 16:40	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.530U ± 0.364 (0.692) C:73% T:88%	pCi/L	07/07/22 14:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.733U ± 0.565 (1.09)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC10011 FB-1 Lab ID: 30494074007 Collected: 05/24/22 11:15 Received: 06/02/22 10:15 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	-0.00931U ± 0.104 (0.301) C:80% T:NA	pCi/L	07/08/22 16:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.00434U ± 0.280 (0.655) C:72% T:97%	pCi/L	07/07/22 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.00434U ± 0.384 (0.956)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10012 MW-10 **Lab ID: 30494074008** Collected: 05/24/22 12:46 Received: 06/02/22 10:15 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 9315	0.739U ± 0.465 (0.763) C:84% T:NA	pCi/L	07/10/22 11:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.625U ± 0.370 (0.673) C:69% T:94%	pCi/L	07/07/22 14:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.36U ± 0.835 (1.44)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10013 EB-1 **Lab ID: 30494074009** Collected: 05/24/22 13:43 Received: 06/02/22 10:15 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 9315	0.148U ± 0.161 (0.317) C:85% T:NA	pCi/L	07/10/22 11:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.572U ± 0.361 (0.672) C:71% T:95%	pCi/L	07/07/22 14:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.720U ± 0.522 (0.989)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10014 MW-10V **Lab ID: 30494074010** Collected: 05/24/22 14:44 Received: 06/02/22 10:15 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 9315	0.708 ± 0.282 (0.296) C:88% T:NA	pCi/L	07/10/22 11:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.495U ± 0.337 (0.637) C:71% T:97%	pCi/L	07/07/22 14:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.20 ± 0.619 (0.933)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367
Pace Project No.: 30494074

Sample: BC10015 MW-13 **Lab ID: 30494074011** Collected: 05/24/22 15:55 Received: 06/02/22 10:15 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 9315	0.241U ± 0.199 (0.368) C:94% T:NA	pCi/L	07/10/22 11:00	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.674 ± 0.358 (0.624) C:73% T:98%	pCi/L	07/07/22 14:32	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.915U ± 0.557 (0.992)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10016 MW-13 Dup **Lab ID: 30494074012** Collected: 05/24/22 15:55 Received: 06/02/22 10:15 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 9315	0.314U ± 0.204 (0.347) C:98% T:NA	pCi/L	07/10/22 11:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0312U ± 0.312 (0.721) C:68% T:97%	pCi/L	07/07/22 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.345U ± 0.516 (1.07)	pCi/L	07/11/22 22:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10017 MW-18H **Lab ID: 30494074013** Collected: 05/23/22 16:14 Received: 06/02/22 10:15 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 9315	0.358 ± 0.218 (0.318) C:85% T:NA	pCi/L	07/10/22 11:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.669U ± 0.535 (1.07) C:58% T:90%	pCi/L	07/05/22 13:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03U ± 0.753 (1.39)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10018 MW-11 **Lab ID: 30494074014** Collected: 05/23/22 17:20 Received: 06/02/22 10:15 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 9315	0.0967U ± 0.159 (0.354) C:88% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.355U ± 0.433 (0.917) C:61% T:98%	pCi/L	07/05/22 13:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.452U ± 0.592 (1.27)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10018 MW-11 MS **Lab ID: 30494074015** Collected: 05/23/22 17:20 Received: 06/02/22 10:15 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 9315	91.63 %REC ± NA (NA) C:NA T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	103.18 %REC ± NA (NA) C:NA T:NA	pCi/L	07/05/22 13:42	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10018 MW-11 MSD **Lab ID: 30494074016** Collected: 05/23/22 17:20 Received: 06/02/22 10:15 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 9315	92.18 %REC 0.61 RPD ± NA (NA) C:NA T:NA	pCi/L	07/10/22 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	127.91 %REC 21.40 RPD ± NA (NA) C:NA T:NA	pCi/L	07/05/22 13:42	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10019 MW-19H **Lab ID: 30494074017** Collected: 05/24/22 09:27 Received: 06/02/22 10:15 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 9315	0.164U ± 0.159 (0.292) C:82% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.898U ± 0.543 (1.02) C:64% T:84%	pCi/L	07/05/22 13:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.06U ± 0.702 (1.31)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10020 MW-15V **Lab ID: 30494074018** Collected: 05/24/22 10:57 Received: 06/02/22 10:15 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 9315	0.618U ± 0.500 (0.856) C:76% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.23 ± 0.576 (0.987) C:69% T:91%	pCi/L	07/05/22 13:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.85 ± 1.08 (1.84)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10021 MW-7 **Lab ID: 30494074019** Collected: 05/24/22 13:10 Received: 06/02/22 10:15 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 9315	0.297U ± 0.214 (0.346) C:83% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.754U ± 0.437 (0.804) C:75% T:87%	pCi/L	07/05/22 13:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05U ± 0.651 (1.15)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10022 MW-7 DUP **Lab ID: 30494074020** Collected: 05/24/22 13:10 Received: 06/02/22 10:15 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 9315	0.138U ± 0.154 (0.300) C:82% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.709U ± 0.560 (1.12) C:64% T:81%	pCi/L	07/05/22 13:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.847U ± 0.714 (1.42)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10023 FB-3 **Lab ID: 30494074021** Collected: 05/24/22 14:05 Received: 06/02/22 10:15 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 9315	0.0957U ± 0.169 (0.382) C:83% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.707U ± 0.458 (0.871) C:62% T:96%	pCi/L	07/05/22 13:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.803U ± 0.627 (1.25)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10024 MW-7V **Lab ID: 30494074022** Collected: 05/24/22 14:14 Received: 06/02/22 10:15 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 9315	0.304 ± 0.181 (0.239) C:81% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.315U ± 0.332 (0.685) C:66% T:95%	pCi/L	07/05/22 13:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.619U ± 0.513 (0.924)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10025 MW-9 **Lab ID: 30494074023** Collected: 05/24/22 15:15 Received: 06/02/22 10:15 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 9315	0.481 ± 0.227 (0.273) C:84% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.63 ± 0.648 (1.03) C:67% T:84%	pCi/L	07/05/22 13:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.11 ± 0.875 (1.30)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10026 MW-14V **Lab ID: 30494074024** Collected: 05/24/22 16:24 Received: 06/02/22 10:15 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 9315	0.172U ± 0.167 (0.311) C:81% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.09 ± 0.531 (0.922) C:67% T:86%	pCi/L	07/05/22 13:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.26 ± 0.698 (1.23)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10027 MW-12 **Lab ID: 30494074025** Collected: 05/23/22 16:15 Received: 06/02/22 10:15 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 9315	0.503 ± 0.248 (0.290) C:81% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.897 ± 0.443 (0.770) C:78% T:87%	pCi/L	07/05/22 13:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.40 ± 0.691 (1.06)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10028 MW-12V **Lab ID: 30494074026** Collected: 05/23/22 17:05 Received: 06/02/22 10:15 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 9315	0.234U ± 0.195 (0.352) C:83% T:NA	pCi/L	07/10/22 11:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.728U ± 0.434 (0.802) C:63% T:100%	pCi/L	07/05/22 13:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.962U ± 0.629 (1.15)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10029 MW-20V **Lab ID: 30494074027** Collected: 05/24/22 09:05 Received: 06/02/22 10:15 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 9315	0.332U ± 0.220 (0.352) C:85% T:NA	pCi/L	07/10/22 11:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.638U ± 0.435 (0.799) C:79% T:90%	pCi/L	07/10/22 19:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.970U ± 0.655 (1.15)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10030 MW-20V Dup **Lab ID: 30494074028** Collected: 05/24/22 09:05 Received: 06/02/22 10:15 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 9315	0.324U ± 0.208 (0.333) C:83% T:NA	pCi/L	07/10/22 11:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.993 ± 0.437 (0.677) C:69% T:85%	pCi/L	07/05/22 13:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.32 ± 0.645 (1.01)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10031 MW-24H **Lab ID: 30494074029** Collected: 05/24/22 10:33 Received: 06/02/22 10:15 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 9315	0.733 ± 0.363 (0.484) C:70% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.351U ± 0.355 (0.728) C:71% T:87%	pCi/L	07/05/22 13:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.08U ± 0.718 (1.21)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10032 MW-1 **Lab ID: 30494074030** Collected: 05/24/22 12:58 Received: 06/02/22 10:15 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 9315	0.950 ± 0.375 (0.351) C:85% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.17 ± 0.482 (0.747) C:74% T:96%	pCi/L	07/05/22 17:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.12 ± 0.857 (1.10)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10033 MW-1V **Lab ID: 30494074031** Collected: 05/24/22 15:15 Received: 06/02/22 10:15 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 9315	0.426 ± 0.197 (0.213) C:92% T:NA	pCi/L	07/10/22 11:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.57 ± 0.549 (0.772) C:74% T:88%	pCi/L	07/05/22 13:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	2.00 ± 0.746 (0.985)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10033 MW-1V MS **Lab ID: 30494074032** Collected: 05/24/22 15:15 Received: 06/02/22 10:15 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 9315	103.74 %REC ± NA (NA) C:NA T:NA	pCi/L	07/10/22 11:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	95.46 %REC ± NA (NA) C:NA T:NA	pCi/L	07/05/22 13:45	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10033 MW-1V MSD **Lab ID: 30494074033** Collected: 05/24/22 15:15 Received: 06/02/22 10:15 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 9315	97.40 %REC 6.31 RPD ± NA (NA) C:NA T:NA	pCi/L	07/10/22 11:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	82.96 %REC 14.01 RPD ± NA (NA) C:NA T:NA	pCi/L	07/05/22 13:45	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10034 MW-2 **Lab ID: 30494074034** Collected: 05/24/22 16:58 Received: 06/02/22 10:15 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 9315	0.231U ± 0.199 (0.352) C:89% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.501U ± 0.480 (0.996) C:75% T:90%	pCi/L	07/05/22 13:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.732U ± 0.679 (1.35)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10130 MW-13V **Lab ID: 30494074035** Collected: 05/25/22 10:52 Received: 06/02/22 10:15 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 9315	0.341U ± 0.227 (0.346) C:99% T:NA	pCi/L	07/10/22 11:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.610U ± 0.530 (1.09) C:73% T:94%	pCi/L	07/05/22 13:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.951U ± 0.757 (1.44)	pCi/L	07/11/22 22:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10131 MW-14 **Lab ID: 30494074036** Collected: 05/25/22 11:55 Received: 06/02/22 10:15 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 9315	0.377 ± 0.232 (0.347) C:100% T:NA	pCi/L	07/10/22 11:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.871 ± 0.477 (0.829) C:74% T:86%	pCi/L	07/05/22 17:22	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25 ± 0.709 (1.18)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10132 MW-15 **Lab ID: 30494074037** Collected: 05/25/22 13:07 Received: 06/02/22 10:15 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 9315	0.397 ± 0.206 (0.249) C:95% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.906 ± 0.425 (0.686) C:77% T:93%	pCi/L	07/10/22 19:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.30 ± 0.631 (0.935)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10133 MW-15 Dup **Lab ID: 30494074038** Collected: 05/25/22 13:07 Received: 06/02/22 10:15 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 9315	0.478 ± 0.248 (0.291) C:91% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.486 (0.798) C:71% T:91%	pCi/L	07/05/22 17:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.51 ± 0.734 (1.09)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10134 MW-16V **Lab ID: 30494074039** Collected: 05/25/22 14:06 Received: 06/02/22 10:15 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 9315	0.185U ± 0.161 (0.275) C:88% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.846 ± 0.458 (0.788) C:72% T:91%	pCi/L	07/05/22 17:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.03U ± 0.619 (1.06)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10135 MW-16 **Lab ID: 30494074040** Collected: 05/25/22 14:54 Received: 06/02/22 10:15 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 9315	0.216U ± 0.154 (0.234) C:98% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.711U ± 0.457 (0.829) C:70% T:87%	pCi/L	07/05/22 17:22	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.927U ± 0.611 (1.06)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10136 MW-4 **Lab ID: 30494074041** Collected: 05/25/22 15:35 Received: 06/02/22 10:15 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 9315	0.219U ± 0.173 (0.278) C:94% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.602U ± 0.398 (0.745) C:73% T:92%	pCi/L	07/05/22 17:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.821U ± 0.571 (1.02)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10137 MW-17V **Lab ID: 30494074042** Collected: 05/25/22 10:39 Received: 06/02/22 10:15 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 9315	1.98 ± 0.478 (0.203) C:93% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	3.39 ± 0.910 (0.911) C:69% T:84%	pCi/L	07/05/22 17:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	5.37 ± 1.39 (1.11)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10138 MW-17H **Lab ID: 30494074043** Collected: 05/25/22 11:23 Received: 06/02/22 10:15 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 9315	0.480 ± 0.217 (0.245) C:95% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.23 ± 0.489 (0.772) C:71% T:94%	pCi/L	07/05/22 17:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.71 ± 0.706 (1.02)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10139 MW-23V **Lab ID: 30494074044** Collected: 05/25/22 12:50 Received: 06/02/22 10:15 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 9315	-0.143U ± 0.220 (0.807) C:28% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.285U ± 0.389 (0.832) C:74% T:87%	pCi/L	07/05/22 17:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.285U ± 0.609 (1.64)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10140 MW-23H **Lab ID: 30494074045** Collected: 05/25/22 13:53 Received: 06/02/22 10:15 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 9315	0.430 ± 0.213 (0.266) C:97% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.244U ± 0.382 (0.826) C:71% T:88%	pCi/L	07/05/22 17:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.674U ± 0.595 (1.09)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10141 MW-3 **Lab ID: 30494074046** Collected: 05/25/22 15:05 Received: 06/02/22 10:15 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 9315	0.354 ± 0.216 (0.324) C:91% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.37 ± 0.555 (0.872) C:69% T:83%	pCi/L	07/05/22 17:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.72 ± 0.771 (1.20)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10142 FB-4 **Lab ID: 30494074047** Collected: 05/25/22 15:20 Received: 06/02/22 10:15 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 9315	0.0289U ± 0.117 (0.299) C:94% T:NA	pCi/L	07/10/22 11:14	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.506U ± 0.419 (0.833) C:73% T:88%	pCi/L	07/05/22 17:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.535U ± 0.536 (1.13)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10143 MW-25V **Lab ID: 30494074048** Collected: 05/25/22 10:50 Received: 06/02/22 10:15 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 9315	0.105U ± 0.135 (0.278) C:91% T:NA	pCi/L	07/10/22 11:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.422U ± 0.410 (0.836) C:74% T:84%	pCi/L	07/05/22 17:49	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.527U ± 0.545 (1.11)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10144 MW-25H **Lab ID: 30494074049** Collected: 05/25/22 11:40 Received: 06/02/22 10:15 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 9315	0.182U ± 0.141 (0.216) C:96% T:NA	pCi/L	07/10/22 11:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.500U ± 0.428 (0.845) C:72% T:81%	pCi/L	07/05/22 17:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.682U ± 0.569 (1.06)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10145 MW-5 **Lab ID: 30494074050** Collected: 05/25/22 13:05 Received: 06/02/22 10:15 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 9315	0.487 ± 0.228 (0.244) C:100% T:NA	pCi/L	07/10/22 11:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.22 ± 0.502 (0.791) C:69% T:89%	pCi/L	07/05/22 17:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.71 ± 0.730 (1.04)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10146 MW-5V **Lab ID: 30494074051** Collected: 05/25/22 14:03 Received: 06/02/22 10:15 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 9315	0.167U ± 0.149 (0.268) C:98% T:NA	pCi/L	07/10/22 11:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.860 ± 0.439 (0.768) C:73% T:92%	pCi/L	07/05/22 17:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03U ± 0.588 (1.04)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10147 MW-6 **Lab ID: 30494074052** Collected: 05/25/22 15:22 Received: 06/02/22 10:15 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 9315	0.0338U ± 0.113 (0.286) C:100% T:NA	pCi/L	07/10/22 11:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.03 ± 0.483 (0.826) C:76% T:86%	pCi/L	07/05/22 17:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.06U ± 0.596 (1.11)	pCi/L	07/11/22 22:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

Sample: BC10148 FB-2 **Lab ID: 30494074053** Collected: 05/25/22 15:45 Received: 06/02/22 10:15 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 9315	0.0878U ± 0.116 (0.237) C:89% T:NA	pCi/L	07/11/22 09:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.714 ± 0.333 (0.531) C:69% T:95%	pCi/L	07/07/22 11:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.802 ± 0.449 (0.768)	pCi/L	07/11/22 22:45	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

QC Batch: 511756

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30494074053

METHOD BLANK: 2480257

Matrix: Water

Associated Lab Samples: 30494074053

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.215 ± 0.115 (0.148) C:93% T:NA	pCi/L	07/11/22 09:59	

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

QC Batch: 510506

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30494074001, 30494074002, 30494074003, 30494074004, 30494074005, 30494074006, 30494074007, 30494074008, 30494074009, 30494074010, 30494074011, 30494074012

METHOD BLANK: 2474498

Matrix: Water

Associated Lab Samples: 30494074001, 30494074002, 30494074003, 30494074004, 30494074005, 30494074006, 30494074007, 30494074008, 30494074009, 30494074010, 30494074011, 30494074012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0487 ± 0.230 (0.530) C:76% T:89%	pCi/L	07/07/22 11:29	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

QC Batch:	510507	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30494074001, 30494074002, 30494074003, 30494074004, 30494074005, 30494074006, 30494074007, 30494074008, 30494074009, 30494074010, 30494074011, 30494074012

METHOD BLANK: 2474499 Matrix: Water

Associated Lab Samples: 30494074001, 30494074002, 30494074003, 30494074004, 30494074005, 30494074006, 30494074007, 30494074008, 30494074009, 30494074010, 30494074011, 30494074012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0236 ± 0.0549 (0.132) C:86% T:NA	pCi/L	07/08/22 16:28	

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1367
Pace Project No.: 30494074

QC Batch:	510510	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30494074013, 30494074014, 30494074015, 30494074016, 30494074017, 30494074018, 30494074019, 30494074020, 30494074021, 30494074022, 30494074023, 30494074024, 30494074025, 30494074026, 30494074027, 30494074028, 30494074029, 30494074030, 30494074034, 30494074035

METHOD BLANK:	2474504	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 30494074013, 30494074014, 30494074015, 30494074016, 30494074017, 30494074018, 30494074019, 30494074020, 30494074021, 30494074022, 30494074023, 30494074024, 30494074025, 30494074026, 30494074027, 30494074028, 30494074029, 30494074030, 30494074034, 30494074035

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0306 ± 0.0468 (0.172) C:85% T:NA	pCi/L	07/10/22 11:06	

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

QC Batch: 511755

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30494074053

METHOD BLANK: 2480254

Matrix: Water

Associated Lab Samples: 30494074053

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.729 ± 0.340 (0.552) C:70% T:96%	pCi/L	07/07/22 11:25	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

QC Batch: 510512

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30494074031, 30494074032, 30494074033, 30494074036, 30494074037, 30494074038, 30494074039, 30494074040, 30494074041, 30494074042, 30494074043, 30494074044, 30494074045, 30494074046, 30494074047, 30494074048, 30494074049, 30494074050, 30494074051, 30494074052

METHOD BLANK: 2474506

Matrix: Water

Associated Lab Samples: 30494074031, 30494074032, 30494074033, 30494074036, 30494074037, 30494074038, 30494074039, 30494074040, 30494074041, 30494074042, 30494074043, 30494074044, 30494074045, 30494074046, 30494074047, 30494074048, 30494074049, 30494074050, 30494074051, 30494074052

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.706 ± 0.431 (0.805) C:71% T:90%	pCi/L	07/05/22 13:44	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1367
Pace Project No.: 30494074

QC Batch:	510509	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30494074013, 30494074014, 30494074015, 30494074016, 30494074017, 30494074018, 30494074019, 30494074020, 30494074021, 30494074022, 30494074023, 30494074024, 30494074025, 30494074026, 30494074027, 30494074028, 30494074029, 30494074030, 30494074034, 30494074035

METHOD BLANK: 2474503 Matrix: Water

Associated Lab Samples: 30494074013, 30494074014, 30494074015, 30494074016, 30494074017, 30494074018, 30494074019, 30494074020, 30494074021, 30494074022, 30494074023, 30494074024, 30494074025, 30494074026, 30494074027, 30494074028, 30494074029, 30494074030, 30494074034, 30494074035

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.365 ± 0.353 (0.714) C:59% T:91%	pCi/L	07/05/22 13:44	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1367

Pace Project No.: 30494074

QC Batch: 510513

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30494074031, 30494074032, 30494074033, 30494074036, 30494074037, 30494074038, 30494074039, 30494074040, 30494074041, 30494074042, 30494074043, 30494074044, 30494074045, 30494074046, 30494074047, 30494074048, 30494074049, 30494074050, 30494074051, 30494074052

METHOD BLANK: 2474508

Matrix: Water

Associated Lab Samples: 30494074031, 30494074032, 30494074033, 30494074036, 30494074037, 30494074038, 30494074039, 30494074040, 30494074041, 30494074042, 30494074043, 30494074044, 30494074045, 30494074046, 30494074047, 30494074048, 30494074049, 30494074050, 30494074051, 30494074052

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0166 ± 0.0585 (0.149) C:90% T:NA	pCi/L	07/10/22 11:13	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: WMWBARAP_1367
Pace Project No.: 30494074

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1367

Pace Project No.: 30494074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30494074001	BC10007 MW-20H	EPA 9315	510507		
30494074002	BC10008 MW-8V	EPA 9315	510507		
30494074003	BC10008 MW-8V MS	EPA 9315	510507		
30494074004	BC10008 MW-8V MSD	EPA 9315	510507		
30494074005	BC10009 MW-22H	EPA 9315	510507		
30494074006	BC10010 MW-8	EPA 9315	510507		
30494074007	BC10011 FB-1	EPA 9315	510507		
30494074008	BC10012 MW-10	EPA 9315	510507		
30494074009	BC10013 EB-1	EPA 9315	510507		
30494074010	BC10014 MW-10V	EPA 9315	510507		
30494074011	BC10015 MW-13	EPA 9315	510507		
30494074012	BC10016 MW-13 Dup	EPA 9315	510507		
30494074013	BC10017 MW-18H	EPA 9315	510510		
30494074014	BC10018 MW-11	EPA 9315	510510		
30494074015	BC10018 MW-11 MS	EPA 9315	510510		
30494074016	BC10018 MW-11 MSD	EPA 9315	510510		
30494074017	BC10019 MW-19H	EPA 9315	510510		
30494074018	BC10020 MW-15V	EPA 9315	510510		
30494074019	BC10021 MW-7	EPA 9315	510510		
30494074020	BC10022 MW-7 DUP	EPA 9315	510510		
30494074021	BC10023 FB-3	EPA 9315	510510		
30494074022	BC10024 MW-7V	EPA 9315	510510		
30494074023	BC10025 MW-9	EPA 9315	510510		
30494074024	BC10026 MW-14V	EPA 9315	510510		
30494074025	BC10027 MW-12	EPA 9315	510510		
30494074026	BC10028 MW-12V	EPA 9315	510510		
30494074027	BC10029 MW-20V	EPA 9315	510510		
30494074028	BC10030 MW-20V Dup	EPA 9315	510510		
30494074029	BC10031 MW-24H	EPA 9315	510510		
30494074030	BC10032 MW-1	EPA 9315	510510		
30494074031	BC10033 MW-1V	EPA 9315	510513		
30494074032	BC10033 MW-1V MS	EPA 9315	510513		
30494074033	BC10033 MW-1V MSD	EPA 9315	510513		
30494074034	BC10034 MW-2	EPA 9315	510510		
30494074035	BC10130 MW-13V	EPA 9315	510510		
30494074036	BC10131 MW-14	EPA 9315	510513		
30494074037	BC10132 MW-15	EPA 9315	510513		
30494074038	BC10133 MW-15 Dup	EPA 9315	510513		
30494074039	BC10134 MW-16V	EPA 9315	510513		
30494074040	BC10135 MW-16	EPA 9315	510513		
30494074041	BC10136 MW-4	EPA 9315	510513		
30494074042	BC10137 MW-17V	EPA 9315	510513		
30494074043	BC10138 MW-17H	EPA 9315	510513		
30494074044	BC10139 MW-23V	EPA 9315	510513		
30494074045	BC10140 MW-23H	EPA 9315	510513		
30494074046	BC10141 MW-3	EPA 9315	510513		
30494074047	BC10142 FB-4	EPA 9315	510513		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1367

Pace Project No.: 30494074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30494074048	BC10143 MW-25V	EPA 9315	510513		
30494074049	BC10144 MW-25H	EPA 9315	510513		
30494074050	BC10145 MW-5	EPA 9315	510513		
30494074051	BC10146 MW-5V	EPA 9315	510513		
30494074052	BC10147 MW-6	EPA 9315	510513		
30494074053	BC10148 FB-2	EPA 9315	511756		
30494074001	BC10007 MW-20H	EPA 9320	510506		
30494074002	BC10008 MW-8V	EPA 9320	510506		
30494074003	BC10008 MW-8V MS	EPA 9320	510506		
30494074004	BC10008 MW-8V MSD	EPA 9320	510506		
30494074005	BC10009 MW-22H	EPA 9320	510506		
30494074006	BC10010 MW-8	EPA 9320	510506		
30494074007	BC10011 FB-1	EPA 9320	510506		
30494074008	BC10012 MW-10	EPA 9320	510506		
30494074009	BC10013 EB-1	EPA 9320	510506		
30494074010	BC10014 MW-10V	EPA 9320	510506		
30494074011	BC10015 MW-13	EPA 9320	510506		
30494074012	BC10016 MW-13 Dup	EPA 9320	510506		
30494074013	BC10017 MW-18H	EPA 9320	510509		
30494074014	BC10018 MW-11	EPA 9320	510509		
30494074015	BC10018 MW-11 MS	EPA 9320	510509		
30494074016	BC10018 MW-11 MSD	EPA 9320	510509		
30494074017	BC10019 MW-19H	EPA 9320	510509		
30494074018	BC10020 MW-15V	EPA 9320	510509		
30494074019	BC10021 MW-7	EPA 9320	510509		
30494074020	BC10022 MW-7 DUP	EPA 9320	510509		
30494074021	BC10023 FB-3	EPA 9320	510509		
30494074022	BC10024 MW-7V	EPA 9320	510509		
30494074023	BC10025 MW-9	EPA 9320	510509		
30494074024	BC10026 MW-14V	EPA 9320	510509		
30494074025	BC10027 MW-12	EPA 9320	510509		
30494074026	BC10028 MW-12V	EPA 9320	510509		
30494074027	BC10029 MW-20V	EPA 9320	510509		
30494074028	BC10030 MW-20V Dup	EPA 9320	510509		
30494074029	BC10031 MW-24H	EPA 9320	510509		
30494074030	BC10032 MW-1	EPA 9320	510509		
30494074031	BC10033 MW-1V	EPA 9320	510512		
30494074032	BC10033 MW-1V MS	EPA 9320	510512		
30494074033	BC10033 MW-1V MSD	EPA 9320	510512		
30494074034	BC10034 MW-2	EPA 9320	510509		
30494074035	BC10130 MW-13V	EPA 9320	510509		
30494074036	BC10131 MW-14	EPA 9320	510512		
30494074037	BC10132 MW-15	EPA 9320	510512		
30494074038	BC10133 MW-15 Dup	EPA 9320	510512		
30494074039	BC10134 MW-16V	EPA 9320	510512		
30494074040	BC10135 MW-16	EPA 9320	510512		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1367

Pace Project No.: 30494074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30494074041	BC10136 MW-4	EPA 9320	510512		
30494074042	BC10137 MW-17V	EPA 9320	510512		
30494074043	BC10138 MW-17H	EPA 9320	510512		
30494074044	BC10139 MW-23V	EPA 9320	510512		
30494074045	BC10140 MW-23H	EPA 9320	510512		
30494074046	BC10141 MW-3	EPA 9320	510512		
30494074047	BC10142 FB-4	EPA 9320	510512		
30494074048	BC10143 MW-25V	EPA 9320	510512		
30494074049	BC10144 MW-25H	EPA 9320	510512		
30494074050	BC10145 MW-5	EPA 9320	510512		
30494074051	BC10146 MW-5V	EPA 9320	510512		
30494074052	BC10147 MW-6	EPA 9320	510512		
30494074053	BC10148 FB-2	EPA 9320	511755		
30494074001	BC10007 MW-20H	Total Radium Calculation	517872		
30494074002	BC10008 MW-8V	Total Radium Calculation	517872		
30494074005	BC10009 MW-22H	Total Radium Calculation	517872		
30494074006	BC10010 MW-8	Total Radium Calculation	517872		
30494074007	BC10011 FB-1	Total Radium Calculation	517872		
30494074008	BC10012 MW-10	Total Radium Calculation	517872		
30494074009	BC10013 EB-1	Total Radium Calculation	517872		
30494074010	BC10014 MW-10V	Total Radium Calculation	517872		
30494074011	BC10015 MW-13	Total Radium Calculation	517872		
30494074012	BC10016 MW-13 Dup	Total Radium Calculation	517872		
30494074013	BC10017 MW-18H	Total Radium Calculation	517873		
30494074014	BC10018 MW-11	Total Radium Calculation	517873		
30494074017	BC10019 MW-19H	Total Radium Calculation	517873		
30494074018	BC10020 MW-15V	Total Radium Calculation	517873		
30494074019	BC10021 MW-7	Total Radium Calculation	517873		
30494074020	BC10022 MW-7 DUP	Total Radium Calculation	517873		
30494074021	BC10023 FB-3	Total Radium Calculation	517873		
30494074022	BC10024 MW-7V	Total Radium Calculation	517873		
30494074023	BC10025 MW-9	Total Radium Calculation	517873		
30494074024	BC10026 MW-14V	Total Radium Calculation	517873		
30494074025	BC10027 MW-12	Total Radium Calculation	517873		
30494074026	BC10028 MW-12V	Total Radium Calculation	517873		
30494074027	BC10029 MW-20V	Total Radium Calculation	517873		
30494074028	BC10030 MW-20V Dup	Total Radium Calculation	517873		
30494074029	BC10031 MW-24H	Total Radium Calculation	517873		
30494074030	BC10032 MW-1	Total Radium Calculation	517873		
30494074031	BC10033 MW-1V	Total Radium Calculation	517874		
30494074034	BC10034 MW-2	Total Radium Calculation	517873		
30494074035	BC10130 MW-13V	Total Radium Calculation	517873		
30494074036	BC10131 MW-14	Total Radium Calculation	517874		
30494074037	BC10132 MW-15	Total Radium Calculation	517874		
30494074038	BC10133 MW-15 Dup	Total Radium Calculation	517874		
30494074039	BC10134 MW-16V	Total Radium Calculation	517874		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1367
Pace Project No.: 30494074

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30494074040	BC10135 MW-16	Total Radium Calculation	517874		
30494074041	BC10136 MW-4	Total Radium Calculation	517874		
30494074042	BC10137 MW-17V	Total Radium Calculation	517874		
30494074043	BC10138 MW-17H	Total Radium Calculation	517874		
30494074044	BC10139 MW-23V	Total Radium Calculation	517874		
30494074045	BC10140 MW-23H	Total Radium Calculation	517874		
30494074046	BC10141 MW-3	Total Radium Calculation	517874		
30494074047	BC10142 FB-4	Total Radium Calculation	517874		
30494074048	BC10143 MW-25V	Total Radium Calculation	517874		
30494074049	BC10144 MW-25H	Total Radium Calculation	517874		
30494074050	BC10145 MW-5	Total Radium Calculation	517874		
30494074051	BC10146 MW-5V	Total Radium Calculation	517874		
30494074052	BC10147 MW-6	Total Radium Calculation	517874		
30494074053	BC10148 FB-2	Total Radium Calculation	517875		

REPORT OF LABORATORY ANALYSIS

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

WO#: 30494074



30494074

Best Document
is must be completed accurately.

Section B
Required Project Information:

Report To: Brooke Caton
Copy To: Renee Jernigan & Blaine Denton
Purchase Order #: APC10755638
Project Name: Plant Barry Ash Pond
Project Number: WMMBARAP_1367

Invoice Information:
Attention: Brooke Caton
Company Name: Alabama Power Co.
Address: 744 Highway 87 GSC Bldg #8
CCR
Skyler Richmond
Pace Project Manager:
Pace Profile #: 16788

Regulatory Agency
State / Location
AL

Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)	ANALYSES TEST						Residual Chlorine (Y/N)				
							START DATE	TIME					EPA 9315	EPA 9320	Total Radium Sum	Received on	TEMP in C	Ice (Y/N)		Custody Sealed	Cooler (Y/N)	Samples (Y/N)	Infect (Y/N)
BC10007	MW-20H APCO-BY-AP-MW-20H	APCO_Barry_AshPond			GW	G	5/23/2022	15:48	1		X	X	X	X	X	601							
BC10008	MW-8V APCO-BY-AP-MW-8V	APCO_Barry_AshPond	X		GW	G	5/23/2022	17:26	3	H2SO4	X	X	X	X	X	302,003,004							
BC10009	MW-22H APCO-BY-AP-MW-22H	APCO_Barry_AshPond			GW	G	5/24/2022	9:14	1	Unpreserved	X	X	X	X	X	005							
BC10010	MW-8 APCO-BY-AP-MW-8	APCO_Barry_AshPond			GW	G	5/24/2022	10:50	1		X	X	X	X	X	006							
BC10011	FB-1 APCO-BY-AP-FB-01	APCO_Barry_AshPond			GW	G	5/24/2022	11:15	1		X	X	X	X	X	008							
BC10012	MW-10 APCO-BY-AP-MW-10	APCO_Barry_AshPond			GW	G	5/24/2022	12:46	1		X	X	X	X	X	009							
BC10013	EB-1 APCO-BY-AP-EB-01	APCO_Barry_AshPond			GW	G	5/24/2022	13:43	1		X	X	X	X	X	010							
BC10014	MW-10V APCO-BY-AP-MW-10V	APCO_Barry_AshPond			GW	G	5/24/2022	14:44	1		X	X	X	X	X	011							
BC10015	MW-13 APCO-BY-AP-MW-13	APCO_Barry_AshPond			GW	G	5/24/2022	15:55	1		X	X	X	X	X	012							
BC10016	MW-13 Dup APCO-BY-AP-MW-13	APCO_Barry_AshPond	X		GW	G	5/24/2022	15:55	1		X	X	X	X	X								

ACCEPTED BY / AFFILIATION: AM SRT DATE: 8-22-22 TIME: 10:15 SAMPLE CONDITIONS: MA NY Y

RELINQUISHED BY / AFFILIATION: Brooke Caton/ APC GTL DATE: 5/26/2022 TIME: 11:32

SAMPLER NAME AND SIGNATURE: Dallas Gentry
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER:

36494074

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section B
 Required Project Information:
 Report To: Brooke Caton
 Copy To: Renee Jernigan & Blaine Denton
 Attention: Brooke Caton
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 CCR
 Skylar Richmond
 Project Name: Plant Barry Ash Pond
 Project Number: WIMBARAP_1367
 Purchase Order #: APC10755638
 Peace Quote: 16788
 Pace Project Manager:
 Pace Profile #:

Section C
 Invoice Information:
 Regulatory Agency: AL
 State / Location: AL

SAMPLE ID	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Requested Analysis Filtered (Y/N)				TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Intact Samples (Y/N)
								START DATE	TIME		Preservatives	Unpreserved	H2SO4	HNO3					
BC10017	MW-18H	APCO-BY-AP-MW-18H	APCO_Barry_AshPond			GW	G	5/23/2022	16:14	1	X	X	X	X					
BC10018	MW-11	APCO-BY-AP-MW-11	APCO_Barry_AshPond	X		GW	G	5/23/2022	17:20	3	X	X	X	X					
BC10019	MW-19H	APCO-BY-AP-MW-19H	APCO_Barry_AshPond			GW	G	5/24/2022	9:27	1	X	X	X	X					
BC10020	MW-15V	APCO-BY-AP-MW-15V	APCO_Barry_AshPond			GW	G	5/24/2022	10:57	1	X	X	X	X					
BC10021	MW-7	APCO-BY-AP-MW-7	APCO_Barry_AshPond			GW	G	5/24/2022	13:10	1	X	X	X	X					
BC10022	MW-7 Dup	APCO-BY-AP-MW-7	APCO_Barry_AshPond	X		GW	G	5/24/2022	13:10	1	X	X	X	X					
BC10023	FB-3	APCO-BY-AP-FB-03	APCO_Barry_AshPond			GW	G	5/24/2022	14:05	1	X	X	X	X					
BC10024	MW-7V	APCO-BY-AP-MW-7V	APCO_Barry_AshPond			GW	G	5/24/2022	14:14	1	X	X	X	X					
BC10025	MW-9	APCO-BY-AP-MW-9	APCO_Barry_AshPond			GW	G	5/24/2022	15:15	1	X	X	X	X					
BC10026	MW-14V	APCO-BY-AP-MW-14V	APCO_Barry_AshPond			GW	G	5/24/2022	16:24	1	X	X	X	X					

RELINQUISHED BY / AFFILIATION
 DATE: 5/26/2022 TIME: 11:32
 Signature: *Anthony Goggins*
 PRINT Name of SAMPLER: Anthony Goggins
 SIGNATURE of SAMPLER: Anthony Goggins
 DATE Signed:
ACCEPTED BY / AFFILIATION
 DATE: 6-22-2025 TIME: 10:25
 Signature: *ms*
 PRINT Name of SAMPLER:
 SIGNATURE of SAMPLER:
 Residual Chlorine (Y/N)
 Total Radium Sum
 EPA 9315
 EPA 9320
 Analyses Test
 Y/N
 Preservatives
 H2SO4
 HNO3
 Unpreserved

3094674

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B Required Project Information:
 Report To: Brooke Caton
 Copy To: Renee Jernigan & Blaine Denton
 Purchase Order #: APC-10755638
 Project Name: Plant Barry Ash Pond
 Project Number: VMWBARAP_1367

Section C Invoice Information:
 Attention: Brooke Caton
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 City: CCR
 State: AL
 Zip: 36033

SAMPLE ID Character per box: A-Z, 0-9 / , - fields must be unique	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Requested Analysis Filtered (Y/N)		Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)	TEMP in C	Received on	Custody (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Intact (Y/N)						
									START DATE	TIME		Preservatives H2SO4 HNO3	Unpreserved																	
BC10027	MW-12	APCO-BY-AP-MW-12	APCO_Barry_AshPond				GM G	G	5/23/2022	16:15	1		X	X	X	X														025
BC10028	MW-12V	APCO-BY-AP-MW-12V	APCO_Barry_AshPond				GM G	G	5/23/2022	17:05	1		X	X	X	X														026
BC10029	MW-20V	APCO-BY-AP-MW-20V	APCO_Barry_AshPond				GM G	G	5/24/2022	9:05	1		X	X	X	X														027
BC10030	MW-20V Dup	APCO-BY-AP-MW-20V	APCO_Barry_AshPond	X			GM G	G	5/24/2022	9:05	1		X	X	X	X														028
BC10031	MW-24H	APCO-BY-AP-MW-24H	APCO_Barry_AshPond				GM G	G	5/24/2022	10:33	1		X	X	X	X														029
BC10032	MW-1	APCO-BY-AP-MW-1	APCO_Barry_AshPond				GM G	G	5/24/2022	12:58	1		X	X	X	X														020
BC10033	MW-1V	APCO-BY-AP-MW-1V	APCO_Barry_AshPond	X			GM G	G	5/24/2022	15:15	1		X	X	X	X														031, 032, 033
BC10034	MW-2	APCO-BY-AP-MW-2	APCO_Barry_AshPond				GM G	G	5/24/2022	16:58	1		X	X	X	X														034

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Brooke Caton / APC GTL	5/26/2022	11:32	<i>MSJ</i>	5/27/2022	10:05

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: TJ Daugherty
 SIGNATURE of SAMPLER: *TJ Daugherty*

30494074

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B

Required Project Information:

Alabama Power Company
 Highway 87 GSC Bldg #8
 Merz, AL 35040
 al@southernco.com
 664-6101 Fax
 28 days

Section C

Invoice Information:

Attention: Brooke Caton
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 CCR
 Skyler Richmond
 Pace Project Manager:
 Pace Profile #: 16788

Regulatory Agency
 State/Location
 AL

Purchase Order #: **APC10755638**
 Project Name: Plant Barry Ash Pond
 Project Number: WMWBARAP_1367

Requested Analysis Filtered (Y/N)

SAMPLE ID	Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives			Analyses Test Y/N	EPA 9315	EPA 9320	Total Radium Sum	Residual Chlorine (Y/N)
									DATE	TIME		Unpreserved	H2SO4	HNO3					
BC10130	MW-13V	APCO-BY-AP-MW-13V	APCO_Barry_AshPond				GM G	G	5/25/2022	10:52	1			X	X	X			035
BC10131	MW-14	APCO-BY-AP-MW-14	APCO_Barry_AshPond				GM G	G	5/25/2022	11:55	1			X	X	X			036
BC10132	MW-15	APCO-BY-AP-MW-15	APCO_Barry_AshPond				GM G	G	5/25/2022	13:07	1			X	X	X			037
BC10133	MW-15 Dup	APCO-BY-AP-MW-15	APCO_Barry_AshPond	X			GM G	G	5/25/2022	13:07	1			X	X	X			038
BC10134	MW-16V	APCO-BY-AP-MW-16V	APCO_Barry_AshPond				GM G	G	5/25/2022	14:06	1			X	X	X			039
BC10135	MW-16	APCO-BY-AP-MW-16	APCO_Barry_AshPond				GM G	G	5/25/2022	14:54	1			X	X	X			040
BC10136	MW-4	APCO-BY-AP-MW-4	APCO_Barry_AshPond				GM G	G	5/25/2022	15:35	1			X	X	X			041

SAMPLE CONDITIONS	TEMP in C	Received on	Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Intact Samples (Y/N)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
							Brooke Caton/ APC GTL	5/26/2022	11:32			

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Anthony Goggins
 SIGNATURE of SAMPLER: [Signature]

30494074

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B			Section C		
Required Project Information:			Invoice Information:		
Company Name: Alabama Power Company	Report To: Brooke Catton	Company Name: Brooke Catton	Company Name: Alabama Power Co.	Attention: Brooke Catton	Regulatory Agency
Address: Highway 87 GSC Bldg #8	Copy To: Renee Jernigan & Blaine Denton	Address: 744 Highway 87 GSC Bldg #8	Address: 744 Highway 87 GSC Bldg #8	Address: CCR	State / Location:
City: Prichard, AL 35040	Purchase Order #: APC10755638	City: Prichard, AL 35040	City: Prichard, AL 35040	City: Prichard, AL 35040	State / Location:
Phone: (205) 664-6101 Fax: (205) 664-6101	Project Name: Plant Barry Ash Pond	Phone: (205) 664-6101 Fax: (205) 664-6101	Phone: (205) 664-6101 Fax: (205) 664-6101	Phone: (205) 664-6101 Fax: (205) 664-6101	State / Location:
Lead Time: 28 days	Project Number: WMWBARAP_1367	Lead Time: 28 days	Lead Time: 28 days	Lead Time: 28 days	State / Location:

SAMPLE ID	Description	Station Name Location_ID	Site Name Facility_ID	Matrix Spike/Matrix Spike Duplicate	Sample Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED	# OF CONTAINERS	Requested Analysis/Filtered (Y/N)						Residual Chlorine (Y/N)
											Unpreserved	H2SO4	HNO3	Preservatives	Analyses Test	EPA 9315	
RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	SAMPLE CONDITIONS	
	BC10137	APCO-BY-AP-MW-17V	APCO_Barry_AshPond			GW	G	1								042	
	BC10138	APCO-BY-AP-MW-17	APCO_Barry_AshPond			GW	G	1								043	
	BC10139	APCO-BY-AP-MW-23V	APCO_Barry_AshPond			GW	G	1								044	
	BC10140	APCO-BY-AP-MW-23H	APCO_Barry_AshPond			GW	G	1								045	
	BC10141	APCO-BY-AP-MW-3	APCO_Barry_AshPond			GW	G	1								046	
	BC10142	APCO-BY-AP-FB-04	APCO_Barry_AshPond			GW	G	1								047	

RELINQUISHED BY / AFFILIATION Brooke Catton/ APC GTL	DATE 5/26/2022	TIME 11:32	ACCEPTED BY / AFFILIATION <i>MSE</i>	DATE 6/22/2022	TIME 10:15	DATE 6/22/2022	TIME 10:15	DATE 6/22/2022	TIME 10:15	DATE 6/22/2022	TIME 10:15	DATE 6/22/2022	TIME 10:15	DATE 6/22/2022	TIME 10:15	DATE 6/22/2022	TIME 10:15
---	-------------------	---------------	---	-------------------	---------------	-------------------	---------------	-------------------	---------------	-------------------	---------------	-------------------	---------------	-------------------	---------------	-------------------	---------------

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Dallas Gentry
 SIGNATURE of SAMPLER: *[Signature]*

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

202494074

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section B
Required Project Information:
 Report To: Brooke Caton
 Copy To: Renee Jernigan & Blaine Deriton
 Purchase Order #: **APC10755638**
 Project Name: Plant Barry Ash Pond
 Project Number: **WMBARAP_1367**

Section C
Invoice Information:
 Attention: Brooke Caton
 Company Name: Alabama Power Co.
 Address: 744 Highway 87 GSC Bldg #8
 Pace Quote: CCR
 Pace Project Manager: Skyler Richmond
 Pace Profile #: 16788

Regulatory Agency
 State / Location: AL

SAMPLE ID

Character per box:
 A-Z, 0-9, /, -
 IDs must be unique

Description	Station Name Location_ID	Site Name Facility_ID	Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Requested Analysis Filtered (Y/N)			Residual Chlorine (Y/N)		
								START DATE	TIME		Preservatives	Analyses Test	DATE		TIME	SAMPLE CONDITIONS
BC10143	MW-25V	APCO-BY-AP-MW-25V	APCO_Barry_AshPond			GW	G	5/25/2022	10:50	1			X	X	X	048
BC10144	MW-25H	APCO-BY-AP-MW-25H	APCO_Barry_AshPond			GW	G	5/25/2022	11:40	1			X	X	X	049
BC10145	MW-5	APCO-BY-AP-MW-5	APCO_Barry_AshPond			GW	G	5/25/2022	13:05	1			X	X	X	050
BC10146	MW-5V	APCO-BY-AP-MW-5V	APCO_Barry_AshPond			GW	G	5/25/2022	14:03	1			X	X	X	051
BC10147	MW-6	APCO-BY-AP-MW-6	APCO_Barry_AshPond			GW	G	5/25/2022	15:22	1			X	X	X	052
BC10148	FB-2	APCO-BY-AP-FB-02	APCO_Barry_AshPond			GW	G	5/25/2022	15:45	1			X	X	X	053

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Brooke Caton/ APC GTL	5/26/2022	11:32	<i>MCS</i>	6/22/2025	NA N Y Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: T.J. Daugherty
 SIGNATURE of SAMPLER: *[Signature]*
 DATE Signed: *[Date]*

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Alabama Power Project # 30494074

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 570165854105

Label	<u>SAM</u>
LIMS Login	<u>MJS</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used NA Type of Ice: Wet Blue None

Cooler Temperature Observed Temp NA °C Correction Factor: NA °C Final Temp: NA °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
				<u>10D4611</u>	<u>SAM 6/2/22</u>
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
-Includes date/time/ID Matrix: <u>WT</u>					
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					
All containers meet method preservation requirements.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>SAM</u>	Date/time of preservation: <u>6/2/22 14:15</u>
				Lot # of added preservative: <u>DL22-0625</u>	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>SAM</u>	Date: <u>6/2/22</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: JC2
Date: 6/18/2022
Worklist: 67114
Matrix: DW

Method Blank Assessment	
MB Sample ID	2474499
MB Concentration:	0.024
M/B Counting Uncertainty:	0.055
MB MDC:	0.132
MB Numerical Performance Indicator:	0.84
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS67114	LCSD67114
Count Date:	7/8/2022	7/8/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.026	24.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.500
Target Conc. (pCi/L, g, F):	4.803	4.803
Uncertainty (Calculated):	0.058	0.058
Result (pCi/L, g, F):	5.124	4.232
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.477	0.428
Numerical Performance Indicator:	1.30	-2.60
Percent Recovery:	106.64%	88.10%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS67114
Duplicate Sample I.D.:	LCSD67114
Sample Result (pCi/L, g, F):	5.124
Sample Result Counting Uncertainty (pCi/L, g, F):	0.477
Sample Duplicate Result (pCi/L, g, F):	4.232
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.428
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	2.728
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	19.04%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signatures and initials

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/23/2022	
Spike I.D.:	30494074002	
Sample MS I.D.:	30494074003	
Sample MSD I.D.:	30494074004	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.027	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.309	
MS Target Conc. (pCi/L, g, F):	15.534	
MSD Aliquot (L, g, F):	0.290	
MSD Target Conc. (pCi/L, g, F):	16.556	
MS Spike Uncertainty (calculated):	0.186	
MSD Spike Uncertainty (calculated):	0.199	
Sample Result:	0.449	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.208	
Sample Matrix Spike Result:	15.705	
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	1.120	
Sample Matrix Spike Duplicate Result:	17.374	
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.142	
MS Numerical Performance Indicator:	-0.471	
MSD Numerical Performance Indicator:	0.614	
MS Percent Recovery:	98.21%	
MSD Percent Recovery:	102.23%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30494074002
Sample MS I.D.:	30494074003
Sample MSD I.D.:	30494074004
Sample Matrix Spike Result:	15.705
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	1.120
Sample Matrix Spike Duplicate Result:	17.374
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.142
Duplicate Numerical Performance Indicator:	-2.045
Duplicate Percent Recoveries (MS/MSD Duplicate RPD):	4.01%
(Based on the Percent Recoveries) MS/MSD Duplicate Status vs Numerical Indicator:	Pass
(Based on the Percent Recoveries) MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 6/17/2022
Worklist: 67113
Matrix: WT

Method Blank Assessment	
MB Sample ID	2474498
MB concentration:	0.049
M/B 2 Sigma CSU:	0.230
MB MDC:	0.530
MB Numerical Performance Indicator:	0.42
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	N
		LCS/D67113	LCS/D67113
Count Date:	7/7/2022		
Spike I.D.:	22-016		
Decay Corrected Spike Concentration (pCi/mL):	35.124		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.810		
Target Conc. (pCi/L, g, F):	4.337		
Uncertainty (Calculated):	0.212		
Result (pCi/L, g, F):	3.939		
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.912		
Numerical Performance Indicator:	-0.83		
Status vs Numerical Indicator:	90.82%		
Status vs Recovery:	N/A		
Upper % Recovery Limits:	135%		
Lower % Recovery Limits:	60%		

Duplicate Sample Assessment		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:		
Duplicate Sample I.D.:		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?		
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

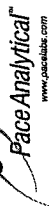
Comments:

QUA 7/17/22

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		5/23/2022	
Sample I.D.:		30494074002	
Sample MS I.D.:		30494074003	
Sample MSD I.D.:		30494074004	
Spike I.D.:		22-016	
Spike I.D.:		35.647	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		0.20	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.806	
MS Aliquot (L, g, F):		8.845	
MS Target Conc. (pCi/L, g, F):		0.806	
MSD Aliquot (L, g, F):		8.842	
MSD Target Conc. (pCi/L, g, F):		0.433	
MS Spike Uncertainty (calculated):		0.433	
MSD Spike Uncertainty (calculated):		0.684	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.391	
Sample Matrix Spike Result:		10.182	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		2.021	
Sample Matrix Spike Duplicate Result:		8.817	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.765	
MS Numerical Performance Indicator:		0.608	
MSD Numerical Performance Indicator:		-0.747	
MS Percent Recovery:		107.38%	
MSD Percent Recovery:		91.99%	
MS Status vs Numerical Indicator:		Pass	
MSD Status vs Numerical Indicator:		Pass	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30494074002
Sample MS I.D.:	30494074003
Sample MSD I.D.:	30494074004
Sample Matrix Spike Result:	10.182
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.021
Sample Matrix Spike Duplicate Result:	8.817
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.765
Duplicate Numerical Performance Indicator:	0.997
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	15.43%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: VAL
 Date: 6/17/2022
 Worklist: 67115
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2474503
MB concentration:	0.365
M/B 2 Sigma CSU:	0.353
MB MDC:	0.714
MB Numerical Performance Indicator:	2.02
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS/D (Y or N)?	N
LCS67115	LCS067115
Count Date:	7/5/2022
Spike I.D.:	22-016
Decay Corrected Spike Concentration (pCi/mL):	35.146
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.816
Target Conc. (pCi/L, g, F):	4.308
Uncertainty (Calculated):	0.211
Result (pCi/L, g, F):	3.657
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.851
Numerical Performance Indicator:	-1.46
Percent Recovery:	84.88%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Ave sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

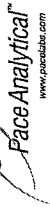
Comments:

6/17/22

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		5/23/2022	
Sample I.D.:		30494074014	
Sample MS I.D.:		30494074015	
Sample MSD I.D.:		30494074016	
Spike I.D.:		22-016	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		35.647	
Spike Volume Used in MS (mL):		0.20	
Spike Volume Used in MSD (mL):		0.20	
MS Aliquot (L, g, F):		0.809	
MS Target Conc. (pCi/L, g, F):		8.816	
MSD Aliquot (L, g, F):		0.806	
MSD Target Conc. (pCi/L, g, F):		8.849	
MSD Spike Uncertainty (calculated):		0.432	
MSD Spike Uncertainty (calculated):		0.434	
Sample Result:		0.355	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.433	
Sample Matrix Spike Result:		9.451	
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		1.925	
Sample Matrix Spike Duplicate Result:		11.674	
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		2.337	
MS Numerical Performance Indicator:		0.272	
MSD Numerical Performance Indicator:		2.003	
MS Percent Recovery:		103.18%	
MSD Percent Recovery:		127.91%	
MS Status vs Numerical Indicator:		Pass	
MSD Status vs Numerical Indicator:		Warning	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30494074014
Sample MS I.D.:	30494074015
Sample MSD I.D.:	30494074016
Sample Matrix Spike Result:	9.451
Sample Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.925
Sample Matrix Spike Duplicate Result:	11.674
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.337
Duplicate Numerical Performance Indicator:	-1.439
Duplicate RPD:	21.40%
(Based on the Percent Recoveries) MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow

Test: Ra-226
Analyst: JC2
Date: 6/19/2022
Worklist: 67116
Matrix: DW

Method Blank Assessment	
MB Sample ID	2474504
MB concentration:	-0.031
MB Counting Uncertainty:	0.047
MB MDC:	0.172
MB Numerical Performance Indicator:	-1.29
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS67116	YCS67116
Count Date:	7/10/2022	LCS67116
Spike I.D.:	19-033	7/10/2022
Decay Corrected Spike Concentration (pCi/mL):	24.026	24.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.504
Target Conc. (pCi/L, g, F):	4.733	4.764
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.076	4.748
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.478	0.459
Numerical Performance Indicator:	1.39	-0.07
Percent Recovery:	107.23%	99.67%
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS67116
Duplicate Sample I.D.:	LCS67116
Sample Result (pCi/L, g, F):	5.076
Duplicate Result (pCi/L, g, F):	4.748
Sample Result Counting Uncertainty (pCi/L, g, F):	0.478
Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.459
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.969
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.31%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

JJ
7/11/22
02/11/22

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/23/2022	
Sample I.D.:	30494074014	
Sample MS I.D.:	30494074015	
Sample MSD I.D.:	30494074016	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.027	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.207	
MS Target Conc. (pCi/L, g, F):	23.260	
MSD Aliquot (L, g, F):	0.273	
MSD Target Conc. (pCi/L, g, F):	17.632	
MS Spike Uncertainty (calculated):	0.279	
MSD Spike Uncertainty (calculated):	0.212	
Sample Result:	0.097	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.158	
Sample Matrix Spike Result:	21.409	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.599	
Sample Matrix Spike Duplicate Result:	16.351	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.201	
MS Numerical Performance Indicator:	-2.341	
MSD Numerical Performance Indicator:	-2.197	
MS Percent Recovery:	91.63%	
MSD Percent Recovery:	92.18%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30494074014
Sample MS I.D.:	30494074015
Sample MSD I.D.:	30494074016
Sample Matrix Spike Result:	21.409
Sample Matrix Spike Duplicate Result:	1.599
Sample Matrix Spike Counting Uncertainty (pCi/L, g, F):	16.351
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.201
Duplicate Numerical Performance Indicator:	4.957
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	0.61%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 6/17/2022
Worklist: 67117
Matrix: WT

Method Blank Assessment

MB Sample ID: 2474506
 MB concentration: 0.706
 MB 2 Sigma CSU: 0.431
 MB MDC: 0.805
 MB Numerical Performance Indicator: 3.21
 MB Status vs Numerical Indicator: Fail*
 MB Status vs. MDC: Pass

Laboratory Control Sample Assessment

LCSD (Y or N)?	N
LCSD67117	LCSD67117
Count Date:	7/5/2022
Spike I.D.:	22-016
Decay Corrected Spike Concentration (pCi/mL):	35.144
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.804
Target Conc. (pCi/L, g, F):	4.374
Uncertainty (Calculated):	0.214
Result (pCi/L, g, F):	4.368
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.016
Numerical Performance Indicator:	-0.01
Percent Recovery:	99.88%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment

Sample I.D.:
 Duplicate Sample I.D.:
 Sample Result (pCi/L, g, F):
 Sample Result 2 Sigma CSU (pCi/L, g, F):
 Sample Duplicate Result (pCi/L, g, F):
 Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):
 Are sample and/or duplicate results below RL?
 Duplicate Numerical Performance Indicator:
 Duplicate RPD:
 Duplicate Status vs Numerical Indicator:
 Duplicate Status vs RPD:
 % RPD Limit:

Enter Duplicate sample IDs if other than LCS/LCSD in the space below.

See Below ##

Sample Matrix Spike Control Assessment

MS/MSD 1	MS/MSD 2
5/24/2022	
Sample I.D.: 30494074031	
Sample MS I.D.: 30494074032	
Sample MSD I.D.: 30494074033	
Spike I.D.: 22-016	
35.636	
0.20	
0.20	
0.803	
8.876	
0.807	
8.827	
0.435	
0.433	
1.574	
0.549	
10.048	
2.008	
8.897	
1.800	
-0.371	
-1.526	
95.46%	
82.96%	
Pass	
Pass	
Pass	
Pass	
135%	
60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment

Sample I.D.: 30494074031	
Sample MS I.D.: 30494074032	
Sample MSD I.D.: 30494074033	
10.048	
2.008	
8.897	
1.800	
0.836	
14.01%	
Pass	
Pass	
36%	

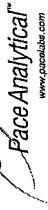
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable; otherwise this batch must be re-prepped.~~

MB activity < MDC, Pass
 6/17/22

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: JC2
Date: 6/19/2022
Worklist: 67118
Matrix: DW

Method Blank Assessment	
MB Sample ID	2474508
MB concentration:	0.017
M/B Counting Uncertainty:	0.058
MB MDC:	0.149
MB Numerical Performance Indicator:	0.56
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCS67118	LCS067118
Count Date:	7/10/2022	7/10/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.026	24.026
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.510	0.501
Target Conc. (pCi/L, g, F):	4.712	4.791
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.030	4.504
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.450	0.449
Numerical Performance Indicator:	-2.95	-1.24
Percent Recovery:	85.53%	94.01%
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS67118
Duplicate Sample I.D.:	LCS067118
Duplicate Result (pCi/L, g, F):	4.030
Sample Result Counting Uncertainty (pCi/L, g, F):	0.450
Sample Duplicate Result (pCi/L, g, F):	4.504
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	NO
Are sample and/or duplicate results below RL?	-1.460
Duplicate Numerical Performance Indicator:	9.44%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	N/A
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	25%
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Handwritten signature/initials

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/24/2022	
Sample I.D.:	30494074031	
Sample MS I.D.:	30494074032	
Sample MSD I.D.:	30494074033	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.027	
Spike Volume Used in MSD (mL):	0.20	
Spike Volume Used in MS (mL):	0.20	
MS Aliquot (L, g, F):	0.316	
MS Target Conc. (pCi/L, g, F):	15.201	
MSD Aliquot (L, g, F):	0.269	
MSD Target Conc. (pCi/L, g, F):	17.851	
MSD Spike Uncertainty (calculated):	0.182	
MSD Spike Uncertainty (calculated):	0.214	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.426	
Sample Matrix Spike Result:	16.196	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.066	
Sample Matrix Spike Duplicate Result:	17.812	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.261	
MS Numerical Performance Indicator:	1.016	
MSD Numerical Performance Indicator:	-0.704	
MS Percent Recovery:	103.74%	
MSD Percent Recovery:	97.40%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30494074031
Sample MS I.D.:	30494074032
Sample MSD I.D.:	30494074033
Matrix Spike Result:	16.196
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.066
Sample Matrix Spike Duplicate Result:	17.812
Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):	1.261
Duplicate Numerical Performance Indicator:	-1.919
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	6.31%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Analyst **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: JC2
Date: 6/19/2022
Worklist: 67288
Matrix: DW

Method Blank Assessment	
MB Sample ID	2480257
MB concentration:	0.215
MB Counting Uncertainty:	0.111
MB MDC:	0.148
MB Numerical Performance Indicator:	3.80
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	7/11/2022	LCS67288	7/11/2022
Spike I.D.:	19-033	LCS67288	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.026		24.026
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.505		0.506
Target Conc. (pCi/L, g, F):	4.756		4.747
Uncertainty (Calculated):	0.057		0.057
Result (pCi/L, g, F):	4.603		4.462
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.465		0.446
Numerical Performance Indicator:	-0.64		-1.25
Percent Recovery:	96.77%		93.98%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS67288
Duplicate Sample I.D.:	LCS67288
Sample Result (pCi/L, g, F):	4.603
Sample Result Counting Uncertainty (pCi/L, g, F):	0.465
Sample Duplicate Result (pCi/L, g, F):	4.462
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.446
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.429
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.93%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

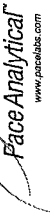
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	5/31/2022	30497264001	
Sample I.D.:	30497264002	30497264003	
Sample MS I.D.:	19-033		
Sample MSD I.D.:	24.027		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	0.20		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.308		
MS Aliquot (L, g, F):	15.619		
MS Target Conc. (pCi/L, g, F):	0.275		
MSD Aliquot (L, g, F):	17.494		
MSD Target Conc. (pCi/L, g, F):	0.187		
MS Spike Uncertainty (calculated):	0.210		
MSD Spike Uncertainty (calculated):	0.489		
Sample Result Counting Uncertainty (pCi/L, g, F):	0.216		
Sample Matrix Spike Result:	16.140		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.094		
Sample Matrix Spike Duplicate Result:	19.283		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.262		
MS Numerical Performance Indicator:	0.054		
MSD Numerical Performance Indicator:	1.964		
MS Percent Recovery:	100.20%		
MSD Percent Recovery:	107.43%		
MS Status vs Numerical Indicator:	N/A		
MSD Status vs Numerical Indicator:	N/A		
MS Status vs Recovery:	Pass		
MSD Status vs Recovery:	Pass		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30497264001
Sample MS I.D.:	30497264002
Sample MSD I.D.:	16.140
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	1.094
Sample Matrix Spike Duplicate Result:	19.283
Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.262
Duplicate Numerical Performance Indicator:	-3.687
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	6.96%
MS/MSD Duplicate Status vs Numerical Indicator:	N/A
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 6/17/2022
Worklist: 67287
Matrix: WI

Method Blank Assessment	
MB Sample ID	2480254
MB concentration:	0.729
M/B 2 Sigma CSU:	0.340
MB MDC:	0.552
MB Numerical Performance Indicator:	4.21
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS67287	N LCS67287
Count Date:	7/7/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	35.124	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.809	
Target Conc. (pCi/L, g, F):	4.344	
Uncertainty (Calculated):	0.213	
Result (pCi/L, g, F):	3.828	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.860	
Numerical Performance Indicator:	-1.14	
Percent Recovery:	88.11%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment	Duplicate Matrix Spike Assessment
<p>Sample I.D.:</p> <p>Duplicate Sample I.D.:</p> <p>Sample Result (pCi/L, g, F):</p> <p>Sample Duplicate Result (pCi/L, g, F):</p> <p>Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Are sample and/or duplicate results below RL?</p> <p>Duplicate Numerical Performance Indicator:</p> <p>Duplicate RPD:</p> <p>Duplicate Status vs Numerical Indicator:</p> <p>Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>	<p>Sample I.D.:</p> <p>Sample MS I.D.:</p> <p>Sample MSD I.D.:</p> <p>Sample Matrix Spike Result:</p> <p>Sample Matrix Spike Duplicate Result:</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):</p> <p>Duplicate Numerical Performance Indicator:</p> <p>(Based on the Percent Recoveries) MS/MSD Duplicate RPD:</p> <p>MS/MSD Duplicate Status vs Numerical Indicator:</p> <p>MS/MSD Duplicate Status vs RPD:</p> <p>% RPD Limit:</p>
<p>Enter Duplicate sample IDs if other than LCS/LCSD in the space below.</p>	<p>30497264001</p> <p>30497264002</p> <p>30497264003</p> <p>9.709</p> <p>1.924</p> <p>9.282</p> <p>1.838</p> <p>0.315</p> <p>4.56%</p> <p>Pass</p> <p>Pass</p> <p>36%</p>

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

Analyst

7/18/22

Alabama Power General Test Laboratory
744 County Road 87, GSC#8
Calera, AL 35040
(205) 664-6032 or 6171
FAX (205) 257-1654

Field Case Narrative



Plant Barry Ash Pond

2022 Compliance Event 2

All samples were collected using methods defined in Alabama Power's Water Field Group Low-Flow Groundwater Sampling Procedure and the associated site-specific Sampling and Analysis Plan (SAP).

Field quality control procedures were performed as follows:

- Blanks and Sample Duplicates were collected as described in the SAP.
- Calibration verification for all required field parameters were performed daily, before and after sample collection.

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-6	COND	Conductivity	10/31/2022 15:24	225.42	uS/cm
BY-AP-MW-6	DO	DO	10/31/2022 15:24	1.06	mg/L
BY-AP-MW-6	DTW	Depth to Water Detail	10/31/2022 15:24	24.22	ft
BY-AP-MW-6	ORP	Oxidation Reduction Potention	10/31/2022 15:24	209.28	mv
BY-AP-MW-6	PH	pH	10/31/2022 15:24	5.27	SU
BY-AP-MW-6	TEMP	Temperature	10/31/2022 15:24	21.15	C
BY-AP-MW-6	TURB	Turbidity	10/31/2022 15:24	1.49	NTU
BY-AP-MW-6	COND	Conductivity	10/31/2022 15:29	203.2	uS/cm
BY-AP-MW-6	DO	DO	10/31/2022 15:29	1.05	mg/L
BY-AP-MW-6	DTW	Depth to Water Detail	10/31/2022 15:29	24.22	ft
BY-AP-MW-6	ORP	Oxidation Reduction Potention	10/31/2022 15:29	233.22	mv
BY-AP-MW-6	PH	pH	10/31/2022 15:29	5.22	SU
BY-AP-MW-6	TEMP	Temperature	10/31/2022 15:29	21.13	C
BY-AP-MW-6	TURB	Turbidity	10/31/2022 15:29	1.07	NTU
BY-AP-MW-6	COND	Conductivity	10/31/2022 15:34	192.48	uS/cm
BY-AP-MW-6	DO	DO	10/31/2022 15:34	1.05	mg/L
BY-AP-MW-6	DTW	Depth to Water Detail	10/31/2022 15:34	24.22	ft
BY-AP-MW-6	ORP	Oxidation Reduction Potention	10/31/2022 15:34	247.83	mv
BY-AP-MW-6	PH	pH	10/31/2022 15:34	5.19	SU
BY-AP-MW-6	TEMP	Temperature	10/31/2022 15:34	21.09	C
BY-AP-MW-6	TURB	Turbidity	10/31/2022 15:34	1.14	NTU
BY-AP-MW-6	COND	Conductivity	10/31/2022 15:39	188.56	uS/cm
BY-AP-MW-6	DO	DO	10/31/2022 15:39	1.03	mg/L
BY-AP-MW-6	DTW	Depth to Water Detail	10/31/2022 15:39	24.22	ft
BY-AP-MW-6	ORP	Oxidation Reduction Potention	10/31/2022 15:39	260.67	mv
BY-AP-MW-6	PH	pH	10/31/2022 15:39	5.15	SU
BY-AP-MW-6	TEMP	Temperature	10/31/2022 15:39	21.08	C
BY-AP-MW-6	TURB	Turbidity	10/31/2022 15:39	1.22	NTU
BY-AP-MW-6	COND	Conductivity	10/31/2022 15:44	217.23	uS/cm
BY-AP-MW-6	DO	DO	10/31/2022 15:44	1.03	mg/L
BY-AP-MW-6	DTW	Depth to Water Detail	10/31/2022 15:44	24.22	ft
BY-AP-MW-6	ORP	Oxidation Reduction Potention	10/31/2022 15:44	270.88	mv
BY-AP-MW-6	PH	pH	10/31/2022 15:44	5.09	SU
BY-AP-MW-6	TEMP	Temperature	10/31/2022 15:44	21.03	C
BY-AP-MW-6	TURB	Turbidity	10/31/2022 15:44	1.2	NTU
BY-AP-MW-6	COND	Conductivity	10/31/2022 15:49	231.08	uS/cm
BY-AP-MW-6	DO	DO	10/31/2022 15:49	1.03	mg/L
BY-AP-MW-6	DTW	Depth to Water Detail	10/31/2022 15:49	24.22	ft
BY-AP-MW-6	ORP	Oxidation Reduction Potention	10/31/2022 15:49	280.95	mv
BY-AP-MW-6	PH	pH	10/31/2022 15:49	5.01	SU
BY-AP-MW-6	TEMP	Temperature	10/31/2022 15:49	21.04	C
BY-AP-MW-6	TURB	Turbidity	10/31/2022 15:49	1.42	NTU
BY-AP-MW-6	COND	Conductivity	10/31/2022 15:54	224.09	uS/cm
BY-AP-MW-6	DO	DO	10/31/2022 15:54	1.03	mg/L
BY-AP-MW-6	DTW	Depth to Water Detail	10/31/2022 15:54	24.22	ft
BY-AP-MW-6	ORP	Oxidation Reduction Potention	10/31/2022 15:54	288.1	mv
BY-AP-MW-6	PH	pH	10/31/2022 15:54	4.98	SU
BY-AP-MW-6	TEMP	Temperature	10/31/2022 15:54	21.05	C
BY-AP-MW-6	TURB	Turbidity	10/31/2022 15:54	1.02	NTU
BY-AP-MW-6	COND	Conductivity	10/31/2022 15:59	220.73	uS/cm
BY-AP-MW-6	DO	DO	10/31/2022 15:59	1.04	mg/L
BY-AP-MW-6	DTW	Depth to Water Detail	10/31/2022 15:59	24.22	ft
BY-AP-MW-6	ORP	Oxidation Reduction Potention	10/31/2022 15:59	297.46	mv
BY-AP-MW-6	PH	pH	10/31/2022 15:59	4.9	SU
BY-AP-MW-6	SULFIDE	Sulfide	10/31/2022 15:59	0	mg/L
BY-AP-MW-6	TEMP	Temperature	10/31/2022 15:59	21.05	C
BY-AP-MW-6	TURB	Turbidity	10/31/2022 15:59	1.1	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-19H	COND	Conductivity	10/31/2022 11:56	551.51	uS/cm
BY-AP-MW-19H	DO	DO	10/31/2022 11:56	0.18	mg/L
BY-AP-MW-19H	DTW	Depth to Water Detail	10/31/2022 11:56	7.06	ft
BY-AP-MW-19H	ORP	Oxidation Reduction Potention	10/31/2022 11:56	-74.33	mv
BY-AP-MW-19H	PH	pH	10/31/2022 11:56	6.13	SU
BY-AP-MW-19H	TEMP	Temperature	10/31/2022 11:56	20.46	C
BY-AP-MW-19H	TURB	Turbidity	10/31/2022 11:56	2.54	NTU
BY-AP-MW-19H	COND	Conductivity	10/31/2022 12:01	520.77	uS/cm
BY-AP-MW-19H	DO	DO	10/31/2022 12:01	0.15	mg/L
BY-AP-MW-19H	DTW	Depth to Water Detail	10/31/2022 12:01	7.06	ft
BY-AP-MW-19H	ORP	Oxidation Reduction Potention	10/31/2022 12:01	-70.83	mv
BY-AP-MW-19H	PH	pH	10/31/2022 12:01	6.11	SU
BY-AP-MW-19H	TEMP	Temperature	10/31/2022 12:01	20.47	C
BY-AP-MW-19H	TURB	Turbidity	10/31/2022 12:01	1.89	NTU
BY-AP-MW-19H	COND	Conductivity	10/31/2022 12:06	524.71	uS/cm
BY-AP-MW-19H	DO	DO	10/31/2022 12:06	0.13	mg/L
BY-AP-MW-19H	DTW	Depth to Water Detail	10/31/2022 12:06	7.06	ft
BY-AP-MW-19H	ORP	Oxidation Reduction Potention	10/31/2022 12:06	-68.46	mv
BY-AP-MW-19H	PH	pH	10/31/2022 12:06	6.1	SU
BY-AP-MW-19H	TEMP	Temperature	10/31/2022 12:06	20.5	C
BY-AP-MW-19H	TURB	Turbidity	10/31/2022 12:06	1.8	NTU
BY-AP-MW-19H	COND	Conductivity	10/31/2022 12:11	524.42	uS/cm
BY-AP-MW-19H	DO	DO	10/31/2022 12:11	0.13	mg/L
BY-AP-MW-19H	DTW	Depth to Water Detail	10/31/2022 12:11	7.06	ft
BY-AP-MW-19H	ORP	Oxidation Reduction Potention	10/31/2022 12:11	-67.42	mv
BY-AP-MW-19H	PH	pH	10/31/2022 12:11	6.1	SU
BY-AP-MW-19H	SULFIDE	Sulfide	10/31/2022 12:11	0	mg/L
BY-AP-MW-19H	TEMP	Temperature	10/31/2022 12:11	20.51	C
BY-AP-MW-19H	TURB	Turbidity	10/31/2022 12:11	1.45	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-20H	COND	Conductivity	10/31/2022 12:42	895.94	uS/cm
BY-AP-MW-20H	DO	DO	10/31/2022 12:42	0.1	mg/L
BY-AP-MW-20H	DTW	Depth to Water Detail	10/31/2022 12:42	7.14	ft
BY-AP-MW-20H	ORP	Oxidation Reduction Potention	10/31/2022 12:42	-70.78	mv
BY-AP-MW-20H	PH	pH	10/31/2022 12:42	6.14	SU
BY-AP-MW-20H	TEMP	Temperature	10/31/2022 12:42	20.29	C
BY-AP-MW-20H	TURB	Turbidity	10/31/2022 12:42	2.99	NTU
BY-AP-MW-20H	COND	Conductivity	10/31/2022 12:47	908.24	uS/cm
BY-AP-MW-20H	DO	DO	10/31/2022 12:47	0.07	mg/L
BY-AP-MW-20H	DTW	Depth to Water Detail	10/31/2022 12:47	7.14	ft
BY-AP-MW-20H	ORP	Oxidation Reduction Potention	10/31/2022 12:47	-73.78	mv
BY-AP-MW-20H	PH	pH	10/31/2022 12:47	6.13	SU
BY-AP-MW-20H	TEMP	Temperature	10/31/2022 12:47	20.34	C
BY-AP-MW-20H	TURB	Turbidity	10/31/2022 12:47	2.92	NTU
BY-AP-MW-20H	COND	Conductivity	10/31/2022 12:52	892.78	uS/cm
BY-AP-MW-20H	DO	DO	10/31/2022 12:52	0.06	mg/L
BY-AP-MW-20H	DTW	Depth to Water Detail	10/31/2022 12:52	7.14	ft
BY-AP-MW-20H	ORP	Oxidation Reduction Potention	10/31/2022 12:52	-75.61	mv
BY-AP-MW-20H	PH	pH	10/31/2022 12:52	6.13	SU
BY-AP-MW-20H	TEMP	Temperature	10/31/2022 12:52	20.34	C
BY-AP-MW-20H	TURB	Turbidity	10/31/2022 12:52	2.52	NTU
BY-AP-MW-20H	COND	Conductivity	10/31/2022 12:57	896.89	uS/cm
BY-AP-MW-20H	DO	DO	10/31/2022 12:57	0.06	mg/L
BY-AP-MW-20H	DTW	Depth to Water Detail	10/31/2022 12:57	7.14	ft
BY-AP-MW-20H	ORP	Oxidation Reduction Potention	10/31/2022 12:57	-76.3	mv
BY-AP-MW-20H	PH	pH	10/31/2022 12:57	6.12	SU
BY-AP-MW-20H	SULFIDE	Sulfide	10/31/2022 12:57	0	mg/L
BY-AP-MW-20H	TEMP	Temperature	10/31/2022 12:57	20.37	C
BY-AP-MW-20H	TURB	Turbidity	10/31/2022 12:57	1.98	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-22H	COND	Conductivity	10/31/2022 13:44	772.59	uS/cm
BY-AP-MW-22H	DO	DO	10/31/2022 13:44	0.13	mg/L
BY-AP-MW-22H	DTW	Depth to Water Detail	10/31/2022 13:44	6.09	ft
BY-AP-MW-22H	ORP	Oxidation Reduction Potention	10/31/2022 13:44	-78.86	mv
BY-AP-MW-22H	PH	pH	10/31/2022 13:44	6.37	SU
BY-AP-MW-22H	TEMP	Temperature	10/31/2022 13:44	20.54	C
BY-AP-MW-22H	TURB	Turbidity	10/31/2022 13:44	3.9	NTU
BY-AP-MW-22H	COND	Conductivity	10/31/2022 13:49	780	uS/cm
BY-AP-MW-22H	DO	DO	10/31/2022 13:49	0.12	mg/L
BY-AP-MW-22H	DTW	Depth to Water Detail	10/31/2022 13:49	6.09	ft
BY-AP-MW-22H	ORP	Oxidation Reduction Potention	10/31/2022 13:49	-86.47	mv
BY-AP-MW-22H	PH	pH	10/31/2022 13:49	6.41	SU
BY-AP-MW-22H	TEMP	Temperature	10/31/2022 13:49	20.55	C
BY-AP-MW-22H	TURB	Turbidity	10/31/2022 13:49	3.56	NTU
BY-AP-MW-22H	COND	Conductivity	10/31/2022 13:54	787.63	uS/cm
BY-AP-MW-22H	DO	DO	10/31/2022 13:54	0.09	mg/L
BY-AP-MW-22H	DTW	Depth to Water Detail	10/31/2022 13:54	6.09	ft
BY-AP-MW-22H	ORP	Oxidation Reduction Potention	10/31/2022 13:54	-92.3	mv
BY-AP-MW-22H	PH	pH	10/31/2022 13:54	6.45	SU
BY-AP-MW-22H	TEMP	Temperature	10/31/2022 13:54	20.53	C
BY-AP-MW-22H	TURB	Turbidity	10/31/2022 13:54	3.6	NTU
BY-AP-MW-22H	COND	Conductivity	10/31/2022 13:59	784.96	uS/cm
BY-AP-MW-22H	DO	DO	10/31/2022 13:59	0.08	mg/L
BY-AP-MW-22H	DTW	Depth to Water Detail	10/31/2022 13:59	6.09	ft
BY-AP-MW-22H	ORP	Oxidation Reduction Potention	10/31/2022 13:59	-95.44	mv
BY-AP-MW-22H	PH	pH	10/31/2022 13:59	6.46	SU
BY-AP-MW-22H	SULFIDE	Sulfide	10/31/2022 13:59	0	mg/L
BY-AP-MW-22H	TEMP	Temperature	10/31/2022 13:59	20.62	C
BY-AP-MW-22H	TURB	Turbidity	10/31/2022 13:59	3.49	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-25H	COND	Conductivity	10/31/2022 16:49	219.42	uS/cm
BY-AP-MW-25H	DO	DO	10/31/2022 16:49	0.91	mg/L
BY-AP-MW-25H	DTW	Depth to Water Detail	10/31/2022 16:49	21.26	ft
BY-AP-MW-25H	ORP	Oxidation Reduction Potention	10/31/2022 16:49	280.18	mv
BY-AP-MW-25H	PH	pH	10/31/2022 16:49	5.13	SU
BY-AP-MW-25H	TEMP	Temperature	10/31/2022 16:49	22.56	C
BY-AP-MW-25H	TURB	Turbidity	10/31/2022 16:49	1.17	NTU
BY-AP-MW-25H	COND	Conductivity	10/31/2022 16:54	218.57	uS/cm
BY-AP-MW-25H	DO	DO	10/31/2022 16:54	0.89	mg/L
BY-AP-MW-25H	DTW	Depth to Water Detail	10/31/2022 16:54	21.26	ft
BY-AP-MW-25H	ORP	Oxidation Reduction Potention	10/31/2022 16:54	292.23	mv
BY-AP-MW-25H	PH	pH	10/31/2022 16:54	5.14	SU
BY-AP-MW-25H	TEMP	Temperature	10/31/2022 16:54	22.51	C
BY-AP-MW-25H	TURB	Turbidity	10/31/2022 16:54	1.15	NTU
BY-AP-MW-25H	COND	Conductivity	10/31/2022 16:59	216.93	uS/cm
BY-AP-MW-25H	DO	DO	10/31/2022 16:59	0.88	mg/L
BY-AP-MW-25H	DTW	Depth to Water Detail	10/31/2022 16:59	21.26	ft
BY-AP-MW-25H	ORP	Oxidation Reduction Potention	10/31/2022 16:59	299.89	mv
BY-AP-MW-25H	PH	pH	10/31/2022 16:59	5.13	SU
BY-AP-MW-25H	TEMP	Temperature	10/31/2022 16:59	22.45	C
BY-AP-MW-25H	TURB	Turbidity	10/31/2022 16:59	0.68	NTU
BY-AP-MW-25H	COND	Conductivity	10/31/2022 17:04	216.38	uS/cm
BY-AP-MW-25H	DO	DO	10/31/2022 17:04	0.88	mg/L
BY-AP-MW-25H	DTW	Depth to Water Detail	10/31/2022 17:04	21.26	ft
BY-AP-MW-25H	ORP	Oxidation Reduction Potention	10/31/2022 17:04	306.44	mv
BY-AP-MW-25H	PH	pH	10/31/2022 17:04	5.11	SU
BY-AP-MW-25H	SULFIDE	Sulfide	10/31/2022 17:04	0	mg/L
BY-AP-MW-25H	TEMP	Temperature	10/31/2022 17:04	22.42	C
BY-AP-MW-25H	TURB	Turbidity	10/31/2022 17:04	0.74	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-1V	COND	Conductivity	11/1/2022 13:40	442.59	uS/cm
BY-AP-MW-1V	DO	DO	11/1/2022 13:40	0.16	mg/L
BY-AP-MW-1V	DTW	Depth to Water Detail	11/1/2022 13:40	23.03	ft
BY-AP-MW-1V	ORP	Oxidation Reduction Potention	11/1/2022 13:40	131.26	mv
BY-AP-MW-1V	PH	pH	11/1/2022 13:40	5.3	SU
BY-AP-MW-1V	TEMP	Temperature	11/1/2022 13:40	22	C
BY-AP-MW-1V	TURB	Turbidity	11/1/2022 13:40	3.04	NTU
BY-AP-MW-1V	COND	Conductivity	11/1/2022 13:45	440.69	uS/cm
BY-AP-MW-1V	DO	DO	11/1/2022 13:45	0.13	mg/L
BY-AP-MW-1V	DTW	Depth to Water Detail	11/1/2022 13:45	23.03	ft
BY-AP-MW-1V	ORP	Oxidation Reduction Potention	11/1/2022 13:45	137.24	mv
BY-AP-MW-1V	PH	pH	11/1/2022 13:45	5.28	SU
BY-AP-MW-1V	TEMP	Temperature	11/1/2022 13:45	22	C
BY-AP-MW-1V	TURB	Turbidity	11/1/2022 13:45	0.87	NTU
BY-AP-MW-1V	COND	Conductivity	11/1/2022 13:50	439.31	uS/cm
BY-AP-MW-1V	DO	DO	11/1/2022 13:50	0.12	mg/L
BY-AP-MW-1V	DTW	Depth to Water Detail	11/1/2022 13:50	23.03	ft
BY-AP-MW-1V	ORP	Oxidation Reduction Potention	11/1/2022 13:50	140.58	mv
BY-AP-MW-1V	PH	pH	11/1/2022 13:50	5.25	SU
BY-AP-MW-1V	TEMP	Temperature	11/1/2022 13:50	21.95	C
BY-AP-MW-1V	TURB	Turbidity	11/1/2022 13:50	0.75	NTU
BY-AP-MW-1V	COND	Conductivity	11/1/2022 13:55	437.28	uS/cm
BY-AP-MW-1V	DO	DO	11/1/2022 13:55	0.11	mg/L
BY-AP-MW-1V	DTW	Depth to Water Detail	11/1/2022 13:55	23.03	ft
BY-AP-MW-1V	ORP	Oxidation Reduction Potention	11/1/2022 13:55	143.73	mv
BY-AP-MW-1V	PH	pH	11/1/2022 13:55	5.21	SU
BY-AP-MW-1V	SULFIDE	Sulfide	11/1/2022 13:55	0	mg/L
BY-AP-MW-1V	TEMP	Temperature	11/1/2022 13:55	21.9	C
BY-AP-MW-1V	TURB	Turbidity	11/1/2022 13:55	0.9	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-14	COND	Conductivity	11/1/2022 15:13	589.48	uS/cm
BY-AP-MW-14	DO	DO	11/1/2022 15:13	0.1	mg/L
BY-AP-MW-14	DTW	Depth to Water Detail	11/1/2022 15:13	10.53	ft
BY-AP-MW-14	ORP	Oxidation Reduction Potention	11/1/2022 15:13	-22	mv
BY-AP-MW-14	PH	pH	11/1/2022 15:13	6.04	SU
BY-AP-MW-14	TEMP	Temperature	11/1/2022 15:13	20.52	C
BY-AP-MW-14	TURB	Turbidity	11/1/2022 15:13	2.08	NTU
BY-AP-MW-14	COND	Conductivity	11/1/2022 15:18	593.58	uS/cm
BY-AP-MW-14	DO	DO	11/1/2022 15:18	0.11	mg/L
BY-AP-MW-14	DTW	Depth to Water Detail	11/1/2022 15:18	10.53	ft
BY-AP-MW-14	ORP	Oxidation Reduction Potention	11/1/2022 15:18	-22.77	mv
BY-AP-MW-14	PH	pH	11/1/2022 15:18	6	SU
BY-AP-MW-14	TEMP	Temperature	11/1/2022 15:18	20.46	C
BY-AP-MW-14	TURB	Turbidity	11/1/2022 15:18	2.01	NTU
BY-AP-MW-14	COND	Conductivity	11/1/2022 15:23	588.82	uS/cm
BY-AP-MW-14	DO	DO	11/1/2022 15:23	0.11	mg/L
BY-AP-MW-14	DTW	Depth to Water Detail	11/1/2022 15:23	10.53	ft
BY-AP-MW-14	ORP	Oxidation Reduction Potention	11/1/2022 15:23	-22.66	mv
BY-AP-MW-14	PH	pH	11/1/2022 15:23	5.97	SU
BY-AP-MW-14	TEMP	Temperature	11/1/2022 15:23	20.52	C
BY-AP-MW-14	TURB	Turbidity	11/1/2022 15:23	1.73	NTU
BY-AP-MW-14	COND	Conductivity	11/1/2022 15:28	586.92	uS/cm
BY-AP-MW-14	DO	DO	11/1/2022 15:28	0.11	mg/L
BY-AP-MW-14	DTW	Depth to Water Detail	11/1/2022 15:28	10.53	ft
BY-AP-MW-14	ORP	Oxidation Reduction Potention	11/1/2022 15:28	-21.67	mv
BY-AP-MW-14	PH	pH	11/1/2022 15:28	5.93	SU
BY-AP-MW-14	SULFIDE	Sulfide	11/1/2022 15:28	0	mg/L
BY-AP-MW-14	TEMP	Temperature	11/1/2022 15:28	20.52	C
BY-AP-MW-14	TURB	Turbidity	11/1/2022 15:28	1.8	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-16V	COND	Conductivity	11/1/2022 14:26	357.53	uS/cm
BY-AP-MW-16V	DO	DO	11/1/2022 14:26	0.17	mg/L
BY-AP-MW-16V	DTW	Depth to Water Detail	11/1/2022 14:26	20.8	ft
BY-AP-MW-16V	ORP	Oxidation Reduction Potention	11/1/2022 14:26	118.61	mv
BY-AP-MW-16V	PH	pH	11/1/2022 14:26	5.21	SU
BY-AP-MW-16V	TEMP	Temperature	11/1/2022 14:26	21.89	C
BY-AP-MW-16V	TURB	Turbidity	11/1/2022 14:26	1.1	NTU
BY-AP-MW-16V	COND	Conductivity	11/1/2022 14:31	355.6	uS/cm
BY-AP-MW-16V	DO	DO	11/1/2022 14:31	0.16	mg/L
BY-AP-MW-16V	DTW	Depth to Water Detail	11/1/2022 14:31	20.8	ft
BY-AP-MW-16V	ORP	Oxidation Reduction Potention	11/1/2022 14:31	124.89	mv
BY-AP-MW-16V	PH	pH	11/1/2022 14:31	5.16	SU
BY-AP-MW-16V	TEMP	Temperature	11/1/2022 14:31	21.87	C
BY-AP-MW-16V	TURB	Turbidity	11/1/2022 14:31	0.94	NTU
BY-AP-MW-16V	COND	Conductivity	11/1/2022 14:36	355.06	uS/cm
BY-AP-MW-16V	DO	DO	11/1/2022 14:36	0.16	mg/L
BY-AP-MW-16V	DTW	Depth to Water Detail	11/1/2022 14:36	20.8	ft
BY-AP-MW-16V	ORP	Oxidation Reduction Potention	11/1/2022 14:36	127.69	mv
BY-AP-MW-16V	PH	pH	11/1/2022 14:36	5.13	SU
BY-AP-MW-16V	TEMP	Temperature	11/1/2022 14:36	21.93	C
BY-AP-MW-16V	TURB	Turbidity	11/1/2022 14:36	0.77	NTU
BY-AP-MW-16V	COND	Conductivity	11/1/2022 14:41	353.95	uS/cm
BY-AP-MW-16V	DO	DO	11/1/2022 14:41	0.16	mg/L
BY-AP-MW-16V	DTW	Depth to Water Detail	11/1/2022 14:41	20.8	ft
BY-AP-MW-16V	ORP	Oxidation Reduction Potention	11/1/2022 14:41	129.12	mv
BY-AP-MW-16V	PH	pH	11/1/2022 14:41	5.13	SU
BY-AP-MW-16V	SULFIDE	Sulfide	11/1/2022 14:41	0	mg/L
BY-AP-MW-16V	TEMP	Temperature	11/1/2022 14:41	21.97	C
BY-AP-MW-16V	TURB	Turbidity	11/1/2022 14:41	0.68	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-23H	COND	Conductivity	11/1/2022 9:53	487.54	uS/cm
BY-AP-MW-23H	DO	DO	11/1/2022 9:53	0.12	mg/L
BY-AP-MW-23H	DTW	Depth to Water Detail	11/1/2022 9:53	8.4	ft
BY-AP-MW-23H	ORP	Oxidation Reduction Potention	11/1/2022 9:53	-53.36	mv
BY-AP-MW-23H	PH	pH	11/1/2022 9:53	5.97	SU
BY-AP-MW-23H	TEMP	Temperature	11/1/2022 9:53	20.03	C
BY-AP-MW-23H	TURB	Turbidity	11/1/2022 9:53	4.12	NTU
BY-AP-MW-23H	COND	Conductivity	11/1/2022 9:58	472.11	uS/cm
BY-AP-MW-23H	DO	DO	11/1/2022 9:58	0.09	mg/L
BY-AP-MW-23H	DTW	Depth to Water Detail	11/1/2022 9:58	8.4	ft
BY-AP-MW-23H	ORP	Oxidation Reduction Potention	11/1/2022 9:58	-54.79	mv
BY-AP-MW-23H	PH	pH	11/1/2022 9:58	5.97	SU
BY-AP-MW-23H	TEMP	Temperature	11/1/2022 9:58	20.04	C
BY-AP-MW-23H	TURB	Turbidity	11/1/2022 9:58	2.59	NTU
BY-AP-MW-23H	COND	Conductivity	11/1/2022 10:03	460.51	uS/cm
BY-AP-MW-23H	DO	DO	11/1/2022 10:03	0.08	mg/L
BY-AP-MW-23H	DTW	Depth to Water Detail	11/1/2022 10:03	8.4	ft
BY-AP-MW-23H	ORP	Oxidation Reduction Potention	11/1/2022 10:03	-55.86	mv
BY-AP-MW-23H	PH	pH	11/1/2022 10:03	5.99	SU
BY-AP-MW-23H	TEMP	Temperature	11/1/2022 10:03	20.04	C
BY-AP-MW-23H	TURB	Turbidity	11/1/2022 10:03	3.11	NTU
BY-AP-MW-23H	COND	Conductivity	11/1/2022 10:08	449.69	uS/cm
BY-AP-MW-23H	DO	DO	11/1/2022 10:08	0.07	mg/L
BY-AP-MW-23H	DTW	Depth to Water Detail	11/1/2022 10:08	8.4	ft
BY-AP-MW-23H	ORP	Oxidation Reduction Potention	11/1/2022 10:08	-56.2	mv
BY-AP-MW-23H	PH	pH	11/1/2022 10:08	5.99	SU
BY-AP-MW-23H	TEMP	Temperature	11/1/2022 10:08	20.03	C
BY-AP-MW-23H	TURB	Turbidity	11/1/2022 10:08	2.76	NTU
BY-AP-MW-23H	COND	Conductivity	11/1/2022 10:13	442.68	uS/cm
BY-AP-MW-23H	DO	DO	11/1/2022 10:13	0.07	mg/L
BY-AP-MW-23H	DTW	Depth to Water Detail	11/1/2022 10:13	8.4	ft
BY-AP-MW-23H	ORP	Oxidation Reduction Potention	11/1/2022 10:13	-56.58	mv
BY-AP-MW-23H	PH	pH	11/1/2022 10:13	6	SU
BY-AP-MW-23H	SULFIDE	Sulfide	11/1/2022 10:13	0	mg/L
BY-AP-MW-23H	TEMP	Temperature	11/1/2022 10:13	20.03	C
BY-AP-MW-23H	TURB	Turbidity	11/1/2022 10:13	2.5	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-23V	COND	Conductivity	11/1/2022 8:56	1417.88	uS/cm
BY-AP-MW-23V	DO	DO	11/1/2022 8:56	0.09	mg/L
BY-AP-MW-23V	DTW	Depth to Water Detail	11/1/2022 8:56	12.82	ft
BY-AP-MW-23V	ORP	Oxidation Reduction Potention	11/1/2022 8:56	-106.71	mv
BY-AP-MW-23V	PH	pH	11/1/2022 8:56	7.24	SU
BY-AP-MW-23V	TEMP	Temperature	11/1/2022 8:56	20.09	C
BY-AP-MW-23V	TURB	Turbidity	11/1/2022 8:56	1.47	NTU
BY-AP-MW-23V	COND	Conductivity	11/1/2022 9:01	1460.73	uS/cm
BY-AP-MW-23V	DO	DO	11/1/2022 9:01	0.07	mg/L
BY-AP-MW-23V	DTW	Depth to Water Detail	11/1/2022 9:01	12.82	ft
BY-AP-MW-23V	ORP	Oxidation Reduction Potention	11/1/2022 9:01	-123.45	mv
BY-AP-MW-23V	PH	pH	11/1/2022 9:01	7.3	SU
BY-AP-MW-23V	TEMP	Temperature	11/1/2022 9:01	20.09	C
BY-AP-MW-23V	TURB	Turbidity	11/1/2022 9:01	0.92	NTU
BY-AP-MW-23V	COND	Conductivity	11/1/2022 9:06	1472.28	uS/cm
BY-AP-MW-23V	DO	DO	11/1/2022 9:06	0.07	mg/L
BY-AP-MW-23V	DTW	Depth to Water Detail	11/1/2022 9:06	12.82	ft
BY-AP-MW-23V	ORP	Oxidation Reduction Potention	11/1/2022 9:06	-131.98	mv
BY-AP-MW-23V	PH	pH	11/1/2022 9:06	7.33	SU
BY-AP-MW-23V	TEMP	Temperature	11/1/2022 9:06	20.12	C
BY-AP-MW-23V	TURB	Turbidity	11/1/2022 9:06	0.96	NTU
BY-AP-MW-23V	COND	Conductivity	11/1/2022 9:11	1482.52	uS/cm
BY-AP-MW-23V	DO	DO	11/1/2022 9:11	0.09	mg/L
BY-AP-MW-23V	DTW	Depth to Water Detail	11/1/2022 9:11	12.82	ft
BY-AP-MW-23V	ORP	Oxidation Reduction Potention	11/1/2022 9:11	-137.27	mv
BY-AP-MW-23V	PH	pH	11/1/2022 9:11	7.36	SU
BY-AP-MW-23V	SULFIDE	Sulfide	11/1/2022 9:11	0	mg/L
BY-AP-MW-23V	TEMP	Temperature	11/1/2022 9:11	20.16	C
BY-AP-MW-23V	TURB	Turbidity	11/1/2022 9:11	0.99	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-25V	COND	Conductivity	11/1/2022 7:57	89.9	uS/cm
BY-AP-MW-25V	DO	DO	11/1/2022 7:57	3.31	mg/L
BY-AP-MW-25V	DTW	Depth to Water Detail	11/1/2022 7:57	21.07	ft
BY-AP-MW-25V	ORP	Oxidation Reduction Potention	11/1/2022 7:57	310.4	mv
BY-AP-MW-25V	PH	pH	11/1/2022 7:57	4.1	SU
BY-AP-MW-25V	TEMP	Temperature	11/1/2022 7:57	21.91	C
BY-AP-MW-25V	TURB	Turbidity	11/1/2022 7:57	3.4	NTU
BY-AP-MW-25V	COND	Conductivity	11/1/2022 8:02	89.79	uS/cm
BY-AP-MW-25V	DO	DO	11/1/2022 8:02	3.37	mg/L
BY-AP-MW-25V	DTW	Depth to Water Detail	11/1/2022 8:02	21.07	ft
BY-AP-MW-25V	ORP	Oxidation Reduction Potention	11/1/2022 8:02	333.57	mv
BY-AP-MW-25V	PH	pH	11/1/2022 8:02	4.18	SU
BY-AP-MW-25V	TEMP	Temperature	11/1/2022 8:02	21.81	C
BY-AP-MW-25V	TURB	Turbidity	11/1/2022 8:02	2.26	NTU
BY-AP-MW-25V	COND	Conductivity	11/1/2022 8:07	90	uS/cm
BY-AP-MW-25V	DO	DO	11/1/2022 8:07	3.4	mg/L
BY-AP-MW-25V	DTW	Depth to Water Detail	11/1/2022 8:07	21.07	ft
BY-AP-MW-25V	ORP	Oxidation Reduction Potention	11/1/2022 8:07	346.53	mv
BY-AP-MW-25V	PH	pH	11/1/2022 8:07	4.22	SU
BY-AP-MW-25V	TEMP	Temperature	11/1/2022 8:07	21.73	C
BY-AP-MW-25V	TURB	Turbidity	11/1/2022 8:07	2.15	NTU
BY-AP-MW-25V	COND	Conductivity	11/1/2022 8:12	89.23	uS/cm
BY-AP-MW-25V	DO	DO	11/1/2022 8:12	3.42	mg/L
BY-AP-MW-25V	DTW	Depth to Water Detail	11/1/2022 8:12	21.07	ft
BY-AP-MW-25V	ORP	Oxidation Reduction Potention	11/1/2022 8:12	354.94	mv
BY-AP-MW-25V	PH	pH	11/1/2022 8:12	4.22	SU
BY-AP-MW-25V	SULFIDE	Sulfide	11/1/2022 8:12	0	mg/L
BY-AP-MW-25V	TEMP	Temperature	11/1/2022 8:12	21.7	C
BY-AP-MW-25V	TURB	Turbidity	11/1/2022 8:12	2.08	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-15V	COND	Conductivity	11/2/2022 8:04	744.04	uS/cm
BY-AP-MW-15V	DO	DO	11/2/2022 8:04	0.17	mg/L
BY-AP-MW-15V	DTW	Depth to Water Detail	11/2/2022 8:04	4.8	ft
BY-AP-MW-15V	ORP	Oxidation Reduction Potention	11/2/2022 8:04	40.59	mv
BY-AP-MW-15V	PH	pH	11/2/2022 8:04	5.26	SU
BY-AP-MW-15V	TEMP	Temperature	11/2/2022 8:04	20.62	C
BY-AP-MW-15V	TURB	Turbidity	11/2/2022 8:04	5.48	NTU
BY-AP-MW-15V	COND	Conductivity	11/2/2022 8:09	779.49	uS/cm
BY-AP-MW-15V	DO	DO	11/2/2022 8:09	0.12	mg/L
BY-AP-MW-15V	DTW	Depth to Water Detail	11/2/2022 8:09	4.8	ft
BY-AP-MW-15V	ORP	Oxidation Reduction Potention	11/2/2022 8:09	31.16	mv
BY-AP-MW-15V	PH	pH	11/2/2022 8:09	5.39	SU
BY-AP-MW-15V	TEMP	Temperature	11/2/2022 8:09	20.68	C
BY-AP-MW-15V	TURB	Turbidity	11/2/2022 8:09	3.25	NTU
BY-AP-MW-15V	COND	Conductivity	11/2/2022 8:14	838.31	uS/cm
BY-AP-MW-15V	DO	DO	11/2/2022 8:14	0.11	mg/L
BY-AP-MW-15V	DTW	Depth to Water Detail	11/2/2022 8:14	4.8	ft
BY-AP-MW-15V	ORP	Oxidation Reduction Potention	11/2/2022 8:14	27.99	mv
BY-AP-MW-15V	PH	pH	11/2/2022 8:14	5.41	SU
BY-AP-MW-15V	TEMP	Temperature	11/2/2022 8:14	20.7	C
BY-AP-MW-15V	TURB	Turbidity	11/2/2022 8:14	4.3	NTU
BY-AP-MW-15V	COND	Conductivity	11/2/2022 8:19	833.03	uS/cm
BY-AP-MW-15V	DO	DO	11/2/2022 8:19	0.1	mg/L
BY-AP-MW-15V	DTW	Depth to Water Detail	11/2/2022 8:19	4.8	ft
BY-AP-MW-15V	ORP	Oxidation Reduction Potention	11/2/2022 8:19	28.87	mv
BY-AP-MW-15V	PH	pH	11/2/2022 8:19	5.4	SU
BY-AP-MW-15V	TEMP	Temperature	11/2/2022 8:19	20.69	C
BY-AP-MW-15V	TURB	Turbidity	11/2/2022 8:19	3.76	NTU
BY-AP-MW-15V	COND	Conductivity	11/2/2022 8:24	829.25	uS/cm
BY-AP-MW-15V	DO	DO	11/2/2022 8:24	0.09	mg/L
BY-AP-MW-15V	DTW	Depth to Water Detail	11/2/2022 8:24	4.8	ft
BY-AP-MW-15V	ORP	Oxidation Reduction Potention	11/2/2022 8:24	30.84	mv
BY-AP-MW-15V	PH	pH	11/2/2022 8:24	5.38	SU
BY-AP-MW-15V	SULFIDE	Sulfide	11/2/2022 8:24	0	mg/L
BY-AP-MW-15V	TEMP	Temperature	11/2/2022 8:24	20.62	C
BY-AP-MW-15V	TURB	Turbidity	11/2/2022 8:24	3.2	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-24H	COND	Conductivity	11/2/2022 9:55	858.72	uS/cm
BY-AP-MW-24H	DO	DO	11/2/2022 9:55	0.17	mg/L
BY-AP-MW-24H	DTW	Depth to Water Detail	11/2/2022 9:55	23.89	ft
BY-AP-MW-24H	ORP	Oxidation Reduction Potention	11/2/2022 9:55	-55.43	mv
BY-AP-MW-24H	PH	pH	11/2/2022 9:55	6.09	SU
BY-AP-MW-24H	TEMP	Temperature	11/2/2022 9:55	21.4	C
BY-AP-MW-24H	TURB	Turbidity	11/2/2022 9:55	2.37	NTU
BY-AP-MW-24H	COND	Conductivity	11/2/2022 10:00	865.11	uS/cm
BY-AP-MW-24H	DO	DO	11/2/2022 10:00	0.14	mg/L
BY-AP-MW-24H	DTW	Depth to Water Detail	11/2/2022 10:00	23.89	ft
BY-AP-MW-24H	ORP	Oxidation Reduction Potention	11/2/2022 10:00	-60.02	mv
BY-AP-MW-24H	PH	pH	11/2/2022 10:00	6.09	SU
BY-AP-MW-24H	TEMP	Temperature	11/2/2022 10:00	21.4	C
BY-AP-MW-24H	TURB	Turbidity	11/2/2022 10:00	2.63	NTU
BY-AP-MW-24H	COND	Conductivity	11/2/2022 10:05	877.9	uS/cm
BY-AP-MW-24H	DO	DO	11/2/2022 10:05	0.13	mg/L
BY-AP-MW-24H	DTW	Depth to Water Detail	11/2/2022 10:05	23.89	ft
BY-AP-MW-24H	ORP	Oxidation Reduction Potention	11/2/2022 10:05	-61.58	mv
BY-AP-MW-24H	PH	pH	11/2/2022 10:05	6.08	SU
BY-AP-MW-24H	TEMP	Temperature	11/2/2022 10:05	21.34	C
BY-AP-MW-24H	TURB	Turbidity	11/2/2022 10:05	2.55	NTU
BY-AP-MW-24H	COND	Conductivity	11/2/2022 10:10	894.07	uS/cm
BY-AP-MW-24H	DO	DO	11/2/2022 10:10	0.13	mg/L
BY-AP-MW-24H	DTW	Depth to Water Detail	11/2/2022 10:10	23.89	ft
BY-AP-MW-24H	ORP	Oxidation Reduction Potention	11/2/2022 10:10	-61.31	mv
BY-AP-MW-24H	PH	pH	11/2/2022 10:10	6.05	SU
BY-AP-MW-24H	SULFIDE	Sulfide	11/2/2022 10:10	0	mg/L
BY-AP-MW-24H	TEMP	Temperature	11/2/2022 10:10	21.31	C
BY-AP-MW-24H	TURB	Turbidity	11/2/2022 10:10	2.66	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-8	COND	Conductivity	11/2/2022 7:45	529.23	uS/cm
BY-AP-MW-8	DO	DO	11/2/2022 7:45	0.07	mg/L
BY-AP-MW-8	DTW	Depth to Water Detail	11/2/2022 7:45	23.16	ft
BY-AP-MW-8	ORP	Oxidation Reduction Potention	11/2/2022 7:45	-78.08	mv
BY-AP-MW-8	PH	pH	11/2/2022 7:45	6.26	SU
BY-AP-MW-8	TEMP	Temperature	11/2/2022 7:45	20.28	C
BY-AP-MW-8	TURB	Turbidity	11/2/2022 7:45	2.96	NTU
BY-AP-MW-8	COND	Conductivity	11/2/2022 7:50	524.97	uS/cm
BY-AP-MW-8	DO	DO	11/2/2022 7:50	0.04	mg/L
BY-AP-MW-8	DTW	Depth to Water Detail	11/2/2022 7:50	23.16	ft
BY-AP-MW-8	ORP	Oxidation Reduction Potention	11/2/2022 7:50	-86.04	mv
BY-AP-MW-8	PH	pH	11/2/2022 7:50	6.28	SU
BY-AP-MW-8	TEMP	Temperature	11/2/2022 7:50	20.3	C
BY-AP-MW-8	TURB	Turbidity	11/2/2022 7:50	2.13	NTU
BY-AP-MW-8	COND	Conductivity	11/2/2022 7:55	522.88	uS/cm
BY-AP-MW-8	DO	DO	11/2/2022 7:55	0.03	mg/L
BY-AP-MW-8	DTW	Depth to Water Detail	11/2/2022 7:55	23.16	ft
BY-AP-MW-8	ORP	Oxidation Reduction Potention	11/2/2022 7:55	-88.47	mv
BY-AP-MW-8	PH	pH	11/2/2022 7:55	6.28	SU
BY-AP-MW-8	TEMP	Temperature	11/2/2022 7:55	20.29	C
BY-AP-MW-8	TURB	Turbidity	11/2/2022 7:55	1.12	NTU
BY-AP-MW-8	COND	Conductivity	11/2/2022 8:00	529.88	uS/cm
BY-AP-MW-8	DO	DO	11/2/2022 8:00	0.02	mg/L
BY-AP-MW-8	DTW	Depth to Water Detail	11/2/2022 8:00	23.16	ft
BY-AP-MW-8	ORP	Oxidation Reduction Potention	11/2/2022 8:00	-89.66	mv
BY-AP-MW-8	PH	pH	11/2/2022 8:00	6.28	SU
BY-AP-MW-8	SULFIDE	Sulfide	11/2/2022 8:00	0	mg/L
BY-AP-MW-8	TEMP	Temperature	11/2/2022 8:00	20.3	C
BY-AP-MW-8	TURB	Turbidity	11/2/2022 8:00	1.02	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-13V	COND	Conductivity	11/1/2022 15:17	566.93	uS/cm
BY-AP-MW-13V	DO	DO	11/1/2022 15:17	0.02	mg/L
BY-AP-MW-13V	DTW	Depth to Water Detail	11/1/2022 15:17	23.11	ft
BY-AP-MW-13V	ORP	Oxidation Reduction Potention	11/1/2022 15:17	-49.87	mv
BY-AP-MW-13V	PH	pH	11/1/2022 15:17	6.3	SU
BY-AP-MW-13V	TEMP	Temperature	11/1/2022 15:17	21.57	C
BY-AP-MW-13V	TURB	Turbidity	11/1/2022 15:17	1.31	NTU
BY-AP-MW-13V	COND	Conductivity	11/1/2022 15:22	566.17	uS/cm
BY-AP-MW-13V	DO	DO	11/1/2022 15:22	0.02	mg/L
BY-AP-MW-13V	DTW	Depth to Water Detail	11/1/2022 15:22	23.11	ft
BY-AP-MW-13V	ORP	Oxidation Reduction Potention	11/1/2022 15:22	-49.15	mv
BY-AP-MW-13V	PH	pH	11/1/2022 15:22	6.29	SU
BY-AP-MW-13V	TEMP	Temperature	11/1/2022 15:22	21.55	C
BY-AP-MW-13V	TURB	Turbidity	11/1/2022 15:22	0.71	NTU
BY-AP-MW-13V	COND	Conductivity	11/1/2022 15:27	559.23	uS/cm
BY-AP-MW-13V	DO	DO	11/1/2022 15:27	0.03	mg/L
BY-AP-MW-13V	DTW	Depth to Water Detail	11/1/2022 15:27	23.11	ft
BY-AP-MW-13V	ORP	Oxidation Reduction Potention	11/1/2022 15:27	-48.37	mv
BY-AP-MW-13V	PH	pH	11/1/2022 15:27	6.29	SU
BY-AP-MW-13V	SULFIDE	Sulfide	11/1/2022 15:27	0	mg/L
BY-AP-MW-13V	TEMP	Temperature	11/1/2022 15:27	21.48	C
BY-AP-MW-13V	TURB	Turbidity	11/1/2022 15:27	0.44	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-13	COND	Conductivity	11/1/2022 14:35	505.81	uS/cm
BY-AP-MW-13	DO	DO	11/1/2022 14:35	0.03	mg/L
BY-AP-MW-13	DTW	Depth to Water Detail	11/1/2022 14:35	22.34	ft
BY-AP-MW-13	ORP	Oxidation Reduction Potention	11/1/2022 14:35	-32.72	mv
BY-AP-MW-13	PH	pH	11/1/2022 14:35	6.24	SU
BY-AP-MW-13	TEMP	Temperature	11/1/2022 14:35	21.52	C
BY-AP-MW-13	TURB	Turbidity	11/1/2022 14:35	11.8	NTU
BY-AP-MW-13	COND	Conductivity	11/1/2022 14:40	496.3	uS/cm
BY-AP-MW-13	DO	DO	11/1/2022 14:40	0.02	mg/L
BY-AP-MW-13	DTW	Depth to Water Detail	11/1/2022 14:40	22.34	ft
BY-AP-MW-13	ORP	Oxidation Reduction Potention	11/1/2022 14:40	-31.23	mv
BY-AP-MW-13	PH	pH	11/1/2022 14:40	6.14	SU
BY-AP-MW-13	TEMP	Temperature	11/1/2022 14:40	21.33	C
BY-AP-MW-13	TURB	Turbidity	11/1/2022 14:40	9.09	NTU
BY-AP-MW-13	COND	Conductivity	11/1/2022 14:45	493.08	uS/cm
BY-AP-MW-13	DO	DO	11/1/2022 14:45	0.03	mg/L
BY-AP-MW-13	DTW	Depth to Water Detail	11/1/2022 14:45	22.34	ft
BY-AP-MW-13	ORP	Oxidation Reduction Potention	11/1/2022 14:45	-30.96	mv
BY-AP-MW-13	PH	pH	11/1/2022 14:45	6.11	SU
BY-AP-MW-13	TEMP	Temperature	11/1/2022 14:45	21.27	C
BY-AP-MW-13	TURB	Turbidity	11/1/2022 14:45	7.58	NTU
BY-AP-MW-13	COND	Conductivity	11/1/2022 14:50	489.28	uS/cm
BY-AP-MW-13	DO	DO	11/1/2022 14:50	0.03	mg/L
BY-AP-MW-13	DTW	Depth to Water Detail	11/1/2022 14:50	22.34	ft
BY-AP-MW-13	ORP	Oxidation Reduction Potention	11/1/2022 14:50	-30.54	mv
BY-AP-MW-13	PH	pH	11/1/2022 14:50	6.09	SU
BY-AP-MW-13	SULFIDE	Sulfide	11/1/2022 14:50	0	mg/L
BY-AP-MW-13	TEMP	Temperature	11/1/2022 14:50	21.32	C
BY-AP-MW-13	TURB	Turbidity	11/1/2022 14:50	4.84	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-20V	COND	Conductivity	11/1/2022 13:47	542.62	uS/cm
BY-AP-MW-20V	DO	DO	11/1/2022 13:47	0.11	mg/L
BY-AP-MW-20V	DTW	Depth to Water Detail	11/1/2022 13:47	23.14	ft
BY-AP-MW-20V	ORP	Oxidation Reduction Potention	11/1/2022 13:47	-72	mv
BY-AP-MW-20V	PH	pH	11/1/2022 13:47	6.44	SU
BY-AP-MW-20V	TEMP	Temperature	11/1/2022 13:47	21.72	C
BY-AP-MW-20V	TURB	Turbidity	11/1/2022 13:47	0.45	NTU
BY-AP-MW-20V	COND	Conductivity	11/1/2022 13:52	543.73	uS/cm
BY-AP-MW-20V	DO	DO	11/1/2022 13:52	0.36	mg/L
BY-AP-MW-20V	DTW	Depth to Water Detail	11/1/2022 13:52	23.14	ft
BY-AP-MW-20V	ORP	Oxidation Reduction Potention	11/1/2022 13:52	-69.83	mv
BY-AP-MW-20V	PH	pH	11/1/2022 13:52	6.41	SU
BY-AP-MW-20V	TEMP	Temperature	11/1/2022 13:52	22.91	C
BY-AP-MW-20V	TURB	Turbidity	11/1/2022 13:52	0.65	NTU
BY-AP-MW-20V	COND	Conductivity	11/1/2022 13:57	542.32	uS/cm
BY-AP-MW-20V	DO	DO	11/1/2022 13:57	0.05	mg/L
BY-AP-MW-20V	DTW	Depth to Water Detail	11/1/2022 13:57	23.14	ft
BY-AP-MW-20V	ORP	Oxidation Reduction Potention	11/1/2022 13:57	-69.59	mv
BY-AP-MW-20V	PH	pH	11/1/2022 13:57	6.33	SU
BY-AP-MW-20V	TEMP	Temperature	11/1/2022 13:57	21.17	C
BY-AP-MW-20V	TURB	Turbidity	11/1/2022 13:57	0.35	NTU
BY-AP-MW-20V	COND	Conductivity	11/1/2022 14:02	542.6	uS/cm
BY-AP-MW-20V	DO	DO	11/1/2022 14:02	0.05	mg/L
BY-AP-MW-20V	DTW	Depth to Water Detail	11/1/2022 14:02	23.14	ft
BY-AP-MW-20V	ORP	Oxidation Reduction Potention	11/1/2022 14:02	-69.11	mv
BY-AP-MW-20V	PH	pH	11/1/2022 14:02	6.3	SU
BY-AP-MW-20V	SULFIDE	Sulfide	11/1/2022 14:02	0	mg/L
BY-AP-MW-20V	TEMP	Temperature	11/1/2022 14:02	21.18	C
BY-AP-MW-20V	TURB	Turbidity	11/1/2022 14:02	0.37	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-12	COND	Conductivity	11/1/2022 10:47	505.25	uS/cm
BY-AP-MW-12	DO	DO	11/1/2022 10:47	0.05	mg/L
BY-AP-MW-12	DTW	Depth to Water Detail	11/1/2022 10:47	21.45	ft
BY-AP-MW-12	ORP	Oxidation Reduction Potention	11/1/2022 10:47	-53.57	mv
BY-AP-MW-12	PH	pH	11/1/2022 10:47	6.22	SU
BY-AP-MW-12	TEMP	Temperature	11/1/2022 10:47	20.95	C
BY-AP-MW-12	TURB	Turbidity	11/1/2022 10:47	0.98	NTU
BY-AP-MW-12	COND	Conductivity	11/1/2022 10:52	491.19	uS/cm
BY-AP-MW-12	DO	DO	11/1/2022 10:52	0.05	mg/L
BY-AP-MW-12	DTW	Depth to Water Detail	11/1/2022 10:52	21.45	ft
BY-AP-MW-12	ORP	Oxidation Reduction Potention	11/1/2022 10:52	-54.99	mv
BY-AP-MW-12	PH	pH	11/1/2022 10:52	6.22	SU
BY-AP-MW-12	TEMP	Temperature	11/1/2022 10:52	20.81	C
BY-AP-MW-12	TURB	Turbidity	11/1/2022 10:52	0.63	NTU
BY-AP-MW-12	COND	Conductivity	11/1/2022 10:57	467.85	uS/cm
BY-AP-MW-12	DO	DO	11/1/2022 10:57	0.05	mg/L
BY-AP-MW-12	DTW	Depth to Water Detail	11/1/2022 10:57	21.45	ft
BY-AP-MW-12	ORP	Oxidation Reduction Potention	11/1/2022 10:57	-55.19	mv
BY-AP-MW-12	PH	pH	11/1/2022 10:57	6.22	SU
BY-AP-MW-12	TEMP	Temperature	11/1/2022 10:57	20.87	C
BY-AP-MW-12	TURB	Turbidity	11/1/2022 10:57	0.83	NTU
BY-AP-MW-12	COND	Conductivity	11/1/2022 11:02	452.04	uS/cm
BY-AP-MW-12	DO	DO	11/1/2022 11:02	0.05	mg/L
BY-AP-MW-12	DTW	Depth to Water Detail	11/1/2022 11:02	21.45	ft
BY-AP-MW-12	ORP	Oxidation Reduction Potention	11/1/2022 11:02	-55.02	mv
BY-AP-MW-12	PH	pH	11/1/2022 11:02	6.22	SU
BY-AP-MW-12	TEMP	Temperature	11/1/2022 11:02	20.89	C
BY-AP-MW-12	TURB	Turbidity	11/1/2022 11:02	0.77	NTU
BY-AP-MW-12	COND	Conductivity	11/1/2022 11:07	556.26	uS/cm
BY-AP-MW-12	DO	DO	11/1/2022 11:07	0.05	mg/L
BY-AP-MW-12	DTW	Depth to Water Detail	11/1/2022 11:07	21.45	ft
BY-AP-MW-12	ORP	Oxidation Reduction Potention	11/1/2022 11:07	-54.52	mv
BY-AP-MW-12	PH	pH	11/1/2022 11:07	6.22	SU
BY-AP-MW-12	TEMP	Temperature	11/1/2022 11:07	20.91	C
BY-AP-MW-12	TURB	Turbidity	11/1/2022 11:07	0.74	NTU
BY-AP-MW-12	COND	Conductivity	11/1/2022 11:12	546.83	uS/cm
BY-AP-MW-12	DO	DO	11/1/2022 11:12	0.05	mg/L
BY-AP-MW-12	DTW	Depth to Water Detail	11/1/2022 11:12	21.45	ft
BY-AP-MW-12	ORP	Oxidation Reduction Potention	11/1/2022 11:12	-53.63	mv
BY-AP-MW-12	PH	pH	11/1/2022 11:12	6.21	SU
BY-AP-MW-12	TEMP	Temperature	11/1/2022 11:12	20.99	C
BY-AP-MW-12	TURB	Turbidity	11/1/2022 11:12	0.5	NTU
BY-AP-MW-12	COND	Conductivity	11/1/2022 11:17	536.42	uS/cm
BY-AP-MW-12	DO	DO	11/1/2022 11:17	0.05	mg/L
BY-AP-MW-12	DTW	Depth to Water Detail	11/1/2022 11:17	21.45	ft
BY-AP-MW-12	ORP	Oxidation Reduction Potention	11/1/2022 11:17	-53.46	mv
BY-AP-MW-12	PH	pH	11/1/2022 11:17	6.21	SU
BY-AP-MW-12	SULFIDE	Sulfide	11/1/2022 11:17	0	mg/L
BY-AP-MW-12	TEMP	Temperature	11/1/2022 11:17	20.96	C
BY-AP-MW-12	TURB	Turbidity	11/1/2022 11:17	0.44	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-12V	COND	Conductivity	11/1/2022 10:10	579.03	uS/cm
BY-AP-MW-12V	DO	DO	11/1/2022 10:10	0.07	mg/L
BY-AP-MW-12V	DTW	Depth to Water Detail	11/1/2022 10:10	20.95	ft
BY-AP-MW-12V	ORP	Oxidation Reduction Potention	11/1/2022 10:10	-61.55	mv
BY-AP-MW-12V	PH	pH	11/1/2022 10:10	6.33	SU
BY-AP-MW-12V	TEMP	Temperature	11/1/2022 10:10	20.67	C
BY-AP-MW-12V	TURB	Turbidity	11/1/2022 10:10	0.57	NTU
BY-AP-MW-12V	COND	Conductivity	11/1/2022 10:15	575.39	uS/cm
BY-AP-MW-12V	DO	DO	11/1/2022 10:15	0.06	mg/L
BY-AP-MW-12V	DTW	Depth to Water Detail	11/1/2022 10:15	20.95	ft
BY-AP-MW-12V	ORP	Oxidation Reduction Potention	11/1/2022 10:15	-62.25	mv
BY-AP-MW-12V	PH	pH	11/1/2022 10:15	6.32	SU
BY-AP-MW-12V	TEMP	Temperature	11/1/2022 10:15	20.82	C
BY-AP-MW-12V	TURB	Turbidity	11/1/2022 10:15	0.94	NTU
BY-AP-MW-12V	COND	Conductivity	11/1/2022 10:20	574.76	uS/cm
BY-AP-MW-12V	DO	DO	11/1/2022 10:20	0.06	mg/L
BY-AP-MW-12V	DTW	Depth to Water Detail	11/1/2022 10:20	20.95	ft
BY-AP-MW-12V	ORP	Oxidation Reduction Potention	11/1/2022 10:20	-62.96	mv
BY-AP-MW-12V	PH	pH	11/1/2022 10:20	6.32	SU
BY-AP-MW-12V	TEMP	Temperature	11/1/2022 10:20	21.02	C
BY-AP-MW-12V	TURB	Turbidity	11/1/2022 10:20	0.45	NTU
BY-AP-MW-12V	COND	Conductivity	11/1/2022 10:25	571.72	uS/cm
BY-AP-MW-12V	DO	DO	11/1/2022 10:25	0.06	mg/L
BY-AP-MW-12V	DTW	Depth to Water Detail	11/1/2022 10:25	20.95	ft
BY-AP-MW-12V	ORP	Oxidation Reduction Potention	11/1/2022 10:25	-63.17	mv
BY-AP-MW-12V	PH	pH	11/1/2022 10:25	6.32	SU
BY-AP-MW-12V	SULFIDE	Sulfide	11/1/2022 10:25	0	mg/L
BY-AP-MW-12V	TEMP	Temperature	11/1/2022 10:25	21.07	C
BY-AP-MW-12V	TURB	Turbidity	11/1/2022 10:25	0.43	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-10V	COND	Conductivity	11/1/2022 8:30	708.82	uS/cm
BY-AP-MW-10V	DO	DO	11/1/2022 8:30	0.08	mg/L
BY-AP-MW-10V	DTW	Depth to Water Detail	11/1/2022 8:30	23.01	ft
BY-AP-MW-10V	ORP	Oxidation Reduction Potention	11/1/2022 8:30	-114.14	mv
BY-AP-MW-10V	PH	pH	11/1/2022 8:30	6.4	SU
BY-AP-MW-10V	TEMP	Temperature	11/1/2022 8:30	20.77	C
BY-AP-MW-10V	TURB	Turbidity	11/1/2022 8:30	0.37	NTU
BY-AP-MW-10V	COND	Conductivity	11/1/2022 8:35	695.2	uS/cm
BY-AP-MW-10V	DO	DO	11/1/2022 8:35	0.06	mg/L
BY-AP-MW-10V	DTW	Depth to Water Detail	11/1/2022 8:35	23.01	ft
BY-AP-MW-10V	ORP	Oxidation Reduction Potention	11/1/2022 8:35	-115.2	mv
BY-AP-MW-10V	PH	pH	11/1/2022 8:35	6.4	SU
BY-AP-MW-10V	TEMP	Temperature	11/1/2022 8:35	20.83	C
BY-AP-MW-10V	TURB	Turbidity	11/1/2022 8:35	1.41	NTU
BY-AP-MW-10V	COND	Conductivity	11/1/2022 8:40	663.01	uS/cm
BY-AP-MW-10V	DO	DO	11/1/2022 8:40	0.05	mg/L
BY-AP-MW-10V	DTW	Depth to Water Detail	11/1/2022 8:40	23.01	ft
BY-AP-MW-10V	ORP	Oxidation Reduction Potention	11/1/2022 8:40	-113.03	mv
BY-AP-MW-10V	PH	pH	11/1/2022 8:40	6.4	SU
BY-AP-MW-10V	TEMP	Temperature	11/1/2022 8:40	20.62	C
BY-AP-MW-10V	TURB	Turbidity	11/1/2022 8:40	0.44	NTU
BY-AP-MW-10V	COND	Conductivity	11/1/2022 8:45	691.49	uS/cm
BY-AP-MW-10V	DO	DO	11/1/2022 8:45	0.04	mg/L
BY-AP-MW-10V	DTW	Depth to Water Detail	11/1/2022 8:45	23.01	ft
BY-AP-MW-10V	ORP	Oxidation Reduction Potention	11/1/2022 8:45	-104.01	mv
BY-AP-MW-10V	PH	pH	11/1/2022 8:45	6.41	SU
BY-AP-MW-10V	SULFIDE	Sulfide	11/1/2022 8:45	0	mg/L
BY-AP-MW-10V	TEMP	Temperature	11/1/2022 8:45	20.72	C
BY-AP-MW-10V	TURB	Turbidity	11/1/2022 8:45	0.3	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-11	COND	Conductivity	11/1/2022 9:26	640.86	uS/cm
BY-AP-MW-11	DO	DO	11/1/2022 9:26	0.15	mg/L
BY-AP-MW-11	DTW	Depth to Water Detail	11/1/2022 9:26	20.62	ft
BY-AP-MW-11	ORP	Oxidation Reduction Potention	11/1/2022 9:26	-67.23	mv
BY-AP-MW-11	PH	pH	11/1/2022 9:26	6.29	SU
BY-AP-MW-11	TEMP	Temperature	11/1/2022 9:26	20.89	C
BY-AP-MW-11	TURB	Turbidity	11/1/2022 9:26	9.5	NTU
BY-AP-MW-11	COND	Conductivity	11/1/2022 9:31	638.86	uS/cm
BY-AP-MW-11	DO	DO	11/1/2022 9:31	0.12	mg/L
BY-AP-MW-11	DTW	Depth to Water Detail	11/1/2022 9:31	20.62	ft
BY-AP-MW-11	ORP	Oxidation Reduction Potention	11/1/2022 9:31	-65.43	mv
BY-AP-MW-11	PH	pH	11/1/2022 9:31	6.27	SU
BY-AP-MW-11	TEMP	Temperature	11/1/2022 9:31	20.89	C
BY-AP-MW-11	TURB	Turbidity	11/1/2022 9:31	5.71	NTU
BY-AP-MW-11	COND	Conductivity	11/1/2022 9:36	635.36	uS/cm
BY-AP-MW-11	DO	DO	11/1/2022 9:36	0.11	mg/L
BY-AP-MW-11	DTW	Depth to Water Detail	11/1/2022 9:36	20.62	ft
BY-AP-MW-11	ORP	Oxidation Reduction Potention	11/1/2022 9:36	-64.77	mv
BY-AP-MW-11	PH	pH	11/1/2022 9:36	6.27	SU
BY-AP-MW-11	TEMP	Temperature	11/1/2022 9:36	20.84	C
BY-AP-MW-11	TURB	Turbidity	11/1/2022 9:36	5.39	NTU
BY-AP-MW-11	COND	Conductivity	11/1/2022 9:41	630.87	uS/cm
BY-AP-MW-11	DO	DO	11/1/2022 9:41	0.1	mg/L
BY-AP-MW-11	DTW	Depth to Water Detail	11/1/2022 9:41	20.62	ft
BY-AP-MW-11	ORP	Oxidation Reduction Potention	11/1/2022 9:41	-63.97	mv
BY-AP-MW-11	PH	pH	11/1/2022 9:41	6.28	SU
BY-AP-MW-11	SULFIDE	Sulfide	11/1/2022 9:41	0	mg/L
BY-AP-MW-11	TEMP	Temperature	11/1/2022 9:41	20.85	C
BY-AP-MW-11	TURB	Turbidity	11/1/2022 9:41	4.51	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-10	COND	Conductivity	11/2/2022 10:09	642.5	uS/cm
BY-AP-MW-10	DO	DO	11/2/2022 10:09	0.07	mg/L
BY-AP-MW-10	DTW	Depth to Water Detail	11/2/2022 10:09	22.38	ft
BY-AP-MW-10	ORP	Oxidation Reduction Potention	11/2/2022 10:09	-66.9	mv
BY-AP-MW-10	PH	pH	11/2/2022 10:09	6.39	SU
BY-AP-MW-10	TEMP	Temperature	11/2/2022 10:09	21.34	C
BY-AP-MW-10	TURB	Turbidity	11/2/2022 10:09	3.35	NTU
BY-AP-MW-10	COND	Conductivity	11/2/2022 10:14	632.87	uS/cm
BY-AP-MW-10	DO	DO	11/2/2022 10:14	0.05	mg/L
BY-AP-MW-10	DTW	Depth to Water Detail	11/2/2022 10:14	22.38	ft
BY-AP-MW-10	ORP	Oxidation Reduction Potention	11/2/2022 10:14	-77.38	mv
BY-AP-MW-10	PH	pH	11/2/2022 10:14	6.39	SU
BY-AP-MW-10	TEMP	Temperature	11/2/2022 10:14	21.31	C
BY-AP-MW-10	TURB	Turbidity	11/2/2022 10:14	2.25	NTU
BY-AP-MW-10	COND	Conductivity	11/2/2022 10:19	625.06	uS/cm
BY-AP-MW-10	DO	DO	11/2/2022 10:19	0.04	mg/L
BY-AP-MW-10	DTW	Depth to Water Detail	11/2/2022 10:19	22.38	ft
BY-AP-MW-10	ORP	Oxidation Reduction Potention	11/2/2022 10:19	-81.37	mv
BY-AP-MW-10	PH	pH	11/2/2022 10:19	6.39	SU
BY-AP-MW-10	TEMP	Temperature	11/2/2022 10:19	21.32	C
BY-AP-MW-10	TURB	Turbidity	11/2/2022 10:19	2.2	NTU
BY-AP-MW-10	COND	Conductivity	11/2/2022 10:24	618.82	uS/cm
BY-AP-MW-10	DO	DO	11/2/2022 10:24	0.04	mg/L
BY-AP-MW-10	DTW	Depth to Water Detail	11/2/2022 10:24	22.38	ft
BY-AP-MW-10	ORP	Oxidation Reduction Potention	11/2/2022 10:24	-83.35	mv
BY-AP-MW-10	PH	pH	11/2/2022 10:24	6.39	SU
BY-AP-MW-10	SULFIDE	Sulfide	11/2/2022 10:24	0	mg/L
BY-AP-MW-10	TEMP	Temperature	11/2/2022 10:24	21.33	C
BY-AP-MW-10	TURB	Turbidity	11/2/2022 10:24	1.92	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-18H	COND	Conductivity	10/31/2022 10:02	381.72	uS/cm
BY-AP-MW-18H	DO	DO	10/31/2022 10:02	0.09	mg/L
BY-AP-MW-18H	DTW	Depth to Water Detail	10/31/2022 10:02	7.82	ft
BY-AP-MW-18H	ORP	Oxidation Reduction Potention	10/31/2022 10:02	-67.55	mv
BY-AP-MW-18H	PH	pH	10/31/2022 10:02	6.23	SU
BY-AP-MW-18H	TEMP	Temperature	10/31/2022 10:02	20.24	C
BY-AP-MW-18H	TURB	Turbidity	10/31/2022 10:02	4.25	NTU
BY-AP-MW-18H	COND	Conductivity	10/31/2022 10:07	415.8	uS/cm
BY-AP-MW-18H	DO	DO	10/31/2022 10:07	0.07	mg/L
BY-AP-MW-18H	DTW	Depth to Water Detail	10/31/2022 10:07	7.82	ft
BY-AP-MW-18H	ORP	Oxidation Reduction Potention	10/31/2022 10:07	-66.04	mv
BY-AP-MW-18H	PH	pH	10/31/2022 10:07	6.19	SU
BY-AP-MW-18H	TEMP	Temperature	10/31/2022 10:07	20.23	C
BY-AP-MW-18H	TURB	Turbidity	10/31/2022 10:07	4.1	NTU
BY-AP-MW-18H	COND	Conductivity	10/31/2022 10:12	374.7	uS/cm
BY-AP-MW-18H	DO	DO	10/31/2022 10:12	0.06	mg/L
BY-AP-MW-18H	DTW	Depth to Water Detail	10/31/2022 10:12	7.82	ft
BY-AP-MW-18H	ORP	Oxidation Reduction Potention	10/31/2022 10:12	-64.55	mv
BY-AP-MW-18H	PH	pH	10/31/2022 10:12	6.19	SU
BY-AP-MW-18H	TEMP	Temperature	10/31/2022 10:12	20.22	C
BY-AP-MW-18H	TURB	Turbidity	10/31/2022 10:12	3.61	NTU
BY-AP-MW-18H	COND	Conductivity	10/31/2022 10:17	469.32	uS/cm
BY-AP-MW-18H	DO	DO	10/31/2022 10:17	0.04	mg/L
BY-AP-MW-18H	DTW	Depth to Water Detail	10/31/2022 10:17	7.82	ft
BY-AP-MW-18H	ORP	Oxidation Reduction Potention	10/31/2022 10:17	-66.54	mv
BY-AP-MW-18H	PH	pH	10/31/2022 10:17	6.18	SU
BY-AP-MW-18H	TEMP	Temperature	10/31/2022 10:17	20.23	C
BY-AP-MW-18H	TURB	Turbidity	10/31/2022 10:17	3.98	NTU
BY-AP-MW-18H	COND	Conductivity	10/31/2022 10:22	441.54	uS/cm
BY-AP-MW-18H	DO	DO	10/31/2022 10:22	0.03	mg/L
BY-AP-MW-18H	DTW	Depth to Water Detail	10/31/2022 10:22	7.82	ft
BY-AP-MW-18H	ORP	Oxidation Reduction Potention	10/31/2022 10:22	-68.08	mv
BY-AP-MW-18H	PH	pH	10/31/2022 10:22	6.19	SU
BY-AP-MW-18H	TEMP	Temperature	10/31/2022 10:22	20.24	C
BY-AP-MW-18H	TURB	Turbidity	10/31/2022 10:22	3.98	NTU
BY-AP-MW-18H	COND	Conductivity	10/31/2022 10:27	456.65	uS/cm
BY-AP-MW-18H	DO	DO	10/31/2022 10:27	0.03	mg/L
BY-AP-MW-18H	DTW	Depth to Water Detail	10/31/2022 10:27	7.82	ft
BY-AP-MW-18H	ORP	Oxidation Reduction Potention	10/31/2022 10:27	-70.06	mv
BY-AP-MW-18H	PH	pH	10/31/2022 10:27	6.21	SU
BY-AP-MW-18H	TEMP	Temperature	10/31/2022 10:27	20.23	C
BY-AP-MW-18H	TURB	Turbidity	10/31/2022 10:27	3.39	NTU
BY-AP-MW-18H	COND	Conductivity	10/31/2022 10:32	435.99	uS/cm
BY-AP-MW-18H	DO	DO	10/31/2022 10:32	0.03	mg/L
BY-AP-MW-18H	DTW	Depth to Water Detail	10/31/2022 10:32	7.82	ft
BY-AP-MW-18H	ORP	Oxidation Reduction Potention	10/31/2022 10:32	-71.11	mv
BY-AP-MW-18H	PH	pH	10/31/2022 10:32	6.23	SU
BY-AP-MW-18H	SULFIDE	Sulfide	10/31/2022 10:32	0	mg/L
BY-AP-MW-18H	TEMP	Temperature	10/31/2022 10:32	20.24	C
BY-AP-MW-18H	TURB	Turbidity	10/31/2022 10:32	3.83	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-7	COND	Conductivity	10/31/2022 11:50	535.55	uS/cm
BY-AP-MW-7	DO	DO	10/31/2022 11:50	0.05	mg/L
BY-AP-MW-7	DTW	Depth to Water Detail	10/31/2022 11:50	22.8	ft
BY-AP-MW-7	ORP	Oxidation Reduction Potention	10/31/2022 11:50	-99.71	mv
BY-AP-MW-7	PH	pH	10/31/2022 11:50	7.08	SU
BY-AP-MW-7	TEMP	Temperature	10/31/2022 11:50	20.99	C
BY-AP-MW-7	TURB	Turbidity	10/31/2022 11:50	5.17	NTU
BY-AP-MW-7	COND	Conductivity	10/31/2022 11:55	530.8	uS/cm
BY-AP-MW-7	DO	DO	10/31/2022 11:55	0.06	mg/L
BY-AP-MW-7	DTW	Depth to Water Detail	10/31/2022 11:55	22.8	ft
BY-AP-MW-7	ORP	Oxidation Reduction Potention	10/31/2022 11:55	-101.24	mv
BY-AP-MW-7	PH	pH	10/31/2022 11:55	7.08	SU
BY-AP-MW-7	TEMP	Temperature	10/31/2022 11:55	20.95	C
BY-AP-MW-7	TURB	Turbidity	10/31/2022 11:55	4.07	NTU
BY-AP-MW-7	COND	Conductivity	10/31/2022 12:00	527.8	uS/cm
BY-AP-MW-7	DO	DO	10/31/2022 12:00	0.06	mg/L
BY-AP-MW-7	DTW	Depth to Water Detail	10/31/2022 12:00	22.8	ft
BY-AP-MW-7	ORP	Oxidation Reduction Potention	10/31/2022 12:00	-101.65	mv
BY-AP-MW-7	PH	pH	10/31/2022 12:00	7.07	SU
BY-AP-MW-7	TEMP	Temperature	10/31/2022 12:00	20.97	C
BY-AP-MW-7	TURB	Turbidity	10/31/2022 12:00	4.11	NTU
BY-AP-MW-7	COND	Conductivity	10/31/2022 12:05	528.67	uS/cm
BY-AP-MW-7	DO	DO	10/31/2022 12:05	0.06	mg/L
BY-AP-MW-7	DTW	Depth to Water Detail	10/31/2022 12:05	22.8	ft
BY-AP-MW-7	ORP	Oxidation Reduction Potention	10/31/2022 12:05	-101.45	mv
BY-AP-MW-7	PH	pH	10/31/2022 12:05	7.07	SU
BY-AP-MW-7	SULFIDE	Sulfide	10/31/2022 12:05	0	mg/L
BY-AP-MW-7	TEMP	Temperature	10/31/2022 12:05	20.9	C
BY-AP-MW-7	TURB	Turbidity	10/31/2022 12:05	3.92	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-7V	COND	Conductivity	10/31/2022 12:47	645.76	uS/cm
BY-AP-MW-7V	DO	DO	10/31/2022 12:47	0.1	mg/L
BY-AP-MW-7V	DTW	Depth to Water Detail	10/31/2022 12:47	22.5	ft
BY-AP-MW-7V	ORP	Oxidation Reduction Potention	10/31/2022 12:47	-189.11	mv
BY-AP-MW-7V	PH	pH	10/31/2022 12:47	7.88	SU
BY-AP-MW-7V	TEMP	Temperature	10/31/2022 12:47	22.44	C
BY-AP-MW-7V	TURB	Turbidity	10/31/2022 12:47	9.74	NTU
BY-AP-MW-7V	COND	Conductivity	10/31/2022 12:52	644.39	uS/cm
BY-AP-MW-7V	DO	DO	10/31/2022 12:52	0.04	mg/L
BY-AP-MW-7V	DTW	Depth to Water Detail	10/31/2022 12:52	22.5	ft
BY-AP-MW-7V	ORP	Oxidation Reduction Potention	10/31/2022 12:52	-210.49	mv
BY-AP-MW-7V	PH	pH	10/31/2022 12:52	7.94	SU
BY-AP-MW-7V	TEMP	Temperature	10/31/2022 12:52	22.15	C
BY-AP-MW-7V	TURB	Turbidity	10/31/2022 12:52	5.36	NTU
BY-AP-MW-7V	COND	Conductivity	10/31/2022 12:57	645.36	uS/cm
BY-AP-MW-7V	DO	DO	10/31/2022 12:57	0.04	mg/L
BY-AP-MW-7V	DTW	Depth to Water Detail	10/31/2022 12:57	22.5	ft
BY-AP-MW-7V	ORP	Oxidation Reduction Potention	10/31/2022 12:57	-207.8	mv
BY-AP-MW-7V	PH	pH	10/31/2022 12:57	7.91	SU
BY-AP-MW-7V	TEMP	Temperature	10/31/2022 12:57	22.29	C
BY-AP-MW-7V	TURB	Turbidity	10/31/2022 12:57	5.38	NTU
BY-AP-MW-7V	COND	Conductivity	10/31/2022 13:02	642.34	uS/cm
BY-AP-MW-7V	DO	DO	10/31/2022 13:02	0.03	mg/L
BY-AP-MW-7V	DTW	Depth to Water Detail	10/31/2022 13:02	22.5	ft
BY-AP-MW-7V	ORP	Oxidation Reduction Potention	10/31/2022 13:02	-205.26	mv
BY-AP-MW-7V	PH	pH	10/31/2022 13:02	7.9	SU
BY-AP-MW-7V	SULFIDE	Sulfide	10/31/2022 13:02	0	mg/L
BY-AP-MW-7V	TEMP	Temperature	10/31/2022 13:02	21.9	C
BY-AP-MW-7V	TURB	Turbidity	10/31/2022 13:02	6.01	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-8V	COND	Conductivity	10/31/2022 13:42	561.43	uS/cm
BY-AP-MW-8V	DO	DO	10/31/2022 13:42	0.06	mg/L
BY-AP-MW-8V	DTW	Depth to Water Detail	10/31/2022 13:42	23	ft
BY-AP-MW-8V	ORP	Oxidation Reduction Potention	10/31/2022 13:42	-54.01	mv
BY-AP-MW-8V	PH	pH	10/31/2022 13:42	6.29	SU
BY-AP-MW-8V	TEMP	Temperature	10/31/2022 13:42	21.11	C
BY-AP-MW-8V	TURB	Turbidity	10/31/2022 13:42	4.41	NTU
BY-AP-MW-8V	COND	Conductivity	10/31/2022 13:47	554.31	uS/cm
BY-AP-MW-8V	DO	DO	10/31/2022 13:47	0.05	mg/L
BY-AP-MW-8V	DTW	Depth to Water Detail	10/31/2022 13:47	23	ft
BY-AP-MW-8V	ORP	Oxidation Reduction Potention	10/31/2022 13:47	-51.57	mv
BY-AP-MW-8V	PH	pH	10/31/2022 13:47	6.26	SU
BY-AP-MW-8V	TEMP	Temperature	10/31/2022 13:47	21.13	C
BY-AP-MW-8V	TURB	Turbidity	10/31/2022 13:47	4.61	NTU
BY-AP-MW-8V	COND	Conductivity	10/31/2022 13:52	551.44	uS/cm
BY-AP-MW-8V	DO	DO	10/31/2022 13:52	0.05	mg/L
BY-AP-MW-8V	DTW	Depth to Water Detail	10/31/2022 13:52	23	ft
BY-AP-MW-8V	ORP	Oxidation Reduction Potention	10/31/2022 13:52	-49.44	mv
BY-AP-MW-8V	PH	pH	10/31/2022 13:52	6.23	SU
BY-AP-MW-8V	TEMP	Temperature	10/31/2022 13:52	21.06	C
BY-AP-MW-8V	TURB	Turbidity	10/31/2022 13:52	4.96	NTU
BY-AP-MW-8V	COND	Conductivity	10/31/2022 13:57	544.59	uS/cm
BY-AP-MW-8V	DO	DO	10/31/2022 13:57	0.05	mg/L
BY-AP-MW-8V	DTW	Depth to Water Detail	10/31/2022 13:57	23	ft
BY-AP-MW-8V	ORP	Oxidation Reduction Potention	10/31/2022 13:57	-47.75	mv
BY-AP-MW-8V	PH	pH	10/31/2022 13:57	6.23	SU
BY-AP-MW-8V	SULFIDE	Sulfide	10/31/2022 13:57	0	mg/L
BY-AP-MW-8V	TEMP	Temperature	10/31/2022 13:57	21.04	C
BY-AP-MW-8V	TURB	Turbidity	10/31/2022 13:57	5.02	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-9	COND	Conductivity	10/31/2022 14:37	558.3	uS/cm
BY-AP-MW-9	DO	DO	10/31/2022 14:37	0.05	mg/L
BY-AP-MW-9	DTW	Depth to Water Detail	10/31/2022 14:37	22.55	ft
BY-AP-MW-9	ORP	Oxidation Reduction Potention	10/31/2022 14:37	-80.6	mv
BY-AP-MW-9	PH	pH	10/31/2022 14:37	6.29	SU
BY-AP-MW-9	TEMP	Temperature	10/31/2022 14:37	21.45	C
BY-AP-MW-9	TURB	Turbidity	10/31/2022 14:37	4.28	NTU
BY-AP-MW-9	COND	Conductivity	10/31/2022 14:42	553.32	uS/cm
BY-AP-MW-9	DO	DO	10/31/2022 14:42	0.04	mg/L
BY-AP-MW-9	DTW	Depth to Water Detail	10/31/2022 14:42	22.55	ft
BY-AP-MW-9	ORP	Oxidation Reduction Potention	10/31/2022 14:42	-79.3	mv
BY-AP-MW-9	PH	pH	10/31/2022 14:42	6.27	SU
BY-AP-MW-9	TEMP	Temperature	10/31/2022 14:42	21.46	C
BY-AP-MW-9	TURB	Turbidity	10/31/2022 14:42	4.97	NTU
BY-AP-MW-9	COND	Conductivity	10/31/2022 14:47	547.43	uS/cm
BY-AP-MW-9	DO	DO	10/31/2022 14:47	0.04	mg/L
BY-AP-MW-9	DTW	Depth to Water Detail	10/31/2022 14:47	22.55	ft
BY-AP-MW-9	ORP	Oxidation Reduction Potention	10/31/2022 14:47	-77.87	mv
BY-AP-MW-9	PH	pH	10/31/2022 14:47	6.26	SU
BY-AP-MW-9	TEMP	Temperature	10/31/2022 14:47	21.49	C
BY-AP-MW-9	TURB	Turbidity	10/31/2022 14:47	4.58	NTU
BY-AP-MW-9	COND	Conductivity	10/31/2022 14:52	543.05	uS/cm
BY-AP-MW-9	DO	DO	10/31/2022 14:52	0.03	mg/L
BY-AP-MW-9	DTW	Depth to Water Detail	10/31/2022 14:52	22.55	ft
BY-AP-MW-9	ORP	Oxidation Reduction Potention	10/31/2022 14:52	-77.29	mv
BY-AP-MW-9	PH	pH	10/31/2022 14:52	6.26	SU
BY-AP-MW-9	SULFIDE	Sulfide	10/31/2022 14:52	0	mg/L
BY-AP-MW-9	TEMP	Temperature	10/31/2022 14:52	21.48	C
BY-AP-MW-9	TURB	Turbidity	10/31/2022 14:52	4.5	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-1	COND	Conductivity	11/2/2022 10:25	777.34	uS/cm
BY-AP-MW-1	DO	DO	11/2/2022 10:25	0.12	mg/L
BY-AP-MW-1	DTW	Depth to Water Detail	11/2/2022 10:25	23.26	ft
BY-AP-MW-1	ORP	Oxidation Reduction Potention	11/2/2022 10:25	-28.2	mv
BY-AP-MW-1	PH	pH	11/2/2022 10:25	5.63	SU
BY-AP-MW-1	TEMP	Temperature	11/2/2022 10:25	22.21	C
BY-AP-MW-1	TURB	Turbidity	11/2/2022 10:25	6	NTU
BY-AP-MW-1	COND	Conductivity	11/2/2022 10:30	780.06	uS/cm
BY-AP-MW-1	DO	DO	11/2/2022 10:30	0.1	mg/L
BY-AP-MW-1	DTW	Depth to Water Detail	11/2/2022 10:30	23.38	ft
BY-AP-MW-1	ORP	Oxidation Reduction Potention	11/2/2022 10:30	-25.81	mv
BY-AP-MW-1	PH	pH	11/2/2022 10:30	5.56	SU
BY-AP-MW-1	TEMP	Temperature	11/2/2022 10:30	22.29	C
BY-AP-MW-1	TURB	Turbidity	11/2/2022 10:30	4.86	NTU
BY-AP-MW-1	COND	Conductivity	11/2/2022 10:35	780.61	uS/cm
BY-AP-MW-1	DO	DO	11/2/2022 10:35	0.1	mg/L
BY-AP-MW-1	DTW	Depth to Water Detail	11/2/2022 10:35	23.38	ft
BY-AP-MW-1	ORP	Oxidation Reduction Potention	11/2/2022 10:35	-25.76	mv
BY-AP-MW-1	PH	pH	11/2/2022 10:35	5.55	SU
BY-AP-MW-1	TEMP	Temperature	11/2/2022 10:35	22.33	C
BY-AP-MW-1	TURB	Turbidity	11/2/2022 10:35	8.95	NTU
BY-AP-MW-1	COND	Conductivity	11/2/2022 10:40	782.74	uS/cm
BY-AP-MW-1	DO	DO	11/2/2022 10:40	0.1	mg/L
BY-AP-MW-1	DTW	Depth to Water Detail	11/2/2022 10:40	23.38	ft
BY-AP-MW-1	ORP	Oxidation Reduction Potention	11/2/2022 10:40	-26.34	mv
BY-AP-MW-1	PH	pH	11/2/2022 10:40	5.56	SU
BY-AP-MW-1	SULFIDE	Sulfide	11/2/2022 10:40	0	mg/L
BY-AP-MW-1	TEMP	Temperature	11/2/2022 10:40	21.95	C
BY-AP-MW-1	TURB	Turbidity	11/2/2022 10:40	4.28	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-2	COND	Conductivity	11/2/2022 8:16	49.69	uS/cm
BY-AP-MW-2	DO	DO	11/2/2022 8:16	0.3	mg/L
BY-AP-MW-2	DTW	Depth to Water Detail	11/2/2022 8:16	20.8	ft
BY-AP-MW-2	ORP	Oxidation Reduction Potention	11/2/2022 8:16	109.21	mv
BY-AP-MW-2	PH	pH	11/2/2022 8:16	5.63	SU
BY-AP-MW-2	TEMP	Temperature	11/2/2022 8:16	21.29	C
BY-AP-MW-2	TURB	Turbidity	11/2/2022 8:16	0.67	NTU
BY-AP-MW-2	COND	Conductivity	11/2/2022 8:21	49.9	uS/cm
BY-AP-MW-2	DO	DO	11/2/2022 8:21	0.29	mg/L
BY-AP-MW-2	DTW	Depth to Water Detail	11/2/2022 8:21	20.8	ft
BY-AP-MW-2	ORP	Oxidation Reduction Potention	11/2/2022 8:21	116.26	mv
BY-AP-MW-2	PH	pH	11/2/2022 8:21	5.64	SU
BY-AP-MW-2	TEMP	Temperature	11/2/2022 8:21	21.39	C
BY-AP-MW-2	TURB	Turbidity	11/2/2022 8:21	0.81	NTU
BY-AP-MW-2	COND	Conductivity	11/2/2022 8:26	49.86	uS/cm
BY-AP-MW-2	DO	DO	11/2/2022 8:26	0.3	mg/L
BY-AP-MW-2	DTW	Depth to Water Detail	11/2/2022 8:26	20.8	ft
BY-AP-MW-2	ORP	Oxidation Reduction Potention	11/2/2022 8:26	118.09	mv
BY-AP-MW-2	PH	pH	11/2/2022 8:26	5.67	SU
BY-AP-MW-2	TEMP	Temperature	11/2/2022 8:26	21.44	C
BY-AP-MW-2	TURB	Turbidity	11/2/2022 8:26	0.79	NTU
BY-AP-MW-2	COND	Conductivity	11/2/2022 8:31	49.85	uS/cm
BY-AP-MW-2	DO	DO	11/2/2022 8:31	0.3	mg/L
BY-AP-MW-2	DTW	Depth to Water Detail	11/2/2022 8:31	20.8	ft
BY-AP-MW-2	ORP	Oxidation Reduction Potention	11/2/2022 8:31	120.7	mv
BY-AP-MW-2	PH	pH	11/2/2022 8:31	5.68	SU
BY-AP-MW-2	SULFIDE	Sulfide	11/2/2022 8:31	0	mg/L
BY-AP-MW-2	TEMP	Temperature	11/2/2022 8:31	21.47	C
BY-AP-MW-2	TURB	Turbidity	11/2/2022 8:31	0.88	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-3	COND	Conductivity	11/1/2022 7:20	43.05	uS/cm
BY-AP-MW-3	DO	DO	11/1/2022 7:20	0.48	mg/L
BY-AP-MW-3	DTW	Depth to Water Detail	11/1/2022 7:20	23.14	ft
BY-AP-MW-3	ORP	Oxidation Reduction Potention	11/1/2022 7:20	201.62	mv
BY-AP-MW-3	PH	pH	11/1/2022 7:20	5.01	SU
BY-AP-MW-3	TEMP	Temperature	11/1/2022 7:20	20.82	C
BY-AP-MW-3	TURB	Turbidity	11/1/2022 7:20	1.59	NTU
BY-AP-MW-3	COND	Conductivity	11/1/2022 7:25	41.87	uS/cm
BY-AP-MW-3	DO	DO	11/1/2022 7:25	0.96	mg/L
BY-AP-MW-3	DTW	Depth to Water Detail	11/1/2022 7:25	23.14	ft
BY-AP-MW-3	ORP	Oxidation Reduction Potention	11/1/2022 7:25	215.59	mv
BY-AP-MW-3	PH	pH	11/1/2022 7:25	5.04	SU
BY-AP-MW-3	TEMP	Temperature	11/1/2022 7:25	20.88	C
BY-AP-MW-3	TURB	Turbidity	11/1/2022 7:25	1.35	NTU
BY-AP-MW-3	COND	Conductivity	11/1/2022 7:30	41.9	uS/cm
BY-AP-MW-3	DO	DO	11/1/2022 7:30	1.3	mg/L
BY-AP-MW-3	DTW	Depth to Water Detail	11/1/2022 7:30	23.14	ft
BY-AP-MW-3	ORP	Oxidation Reduction Potention	11/1/2022 7:30	230.31	mv
BY-AP-MW-3	PH	pH	11/1/2022 7:30	5.05	SU
BY-AP-MW-3	TEMP	Temperature	11/1/2022 7:30	20.84	C
BY-AP-MW-3	TURB	Turbidity	11/1/2022 7:30	1.12	NTU
BY-AP-MW-3	COND	Conductivity	11/1/2022 7:35	42.34	uS/cm
BY-AP-MW-3	DO	DO	11/1/2022 7:35	1.48	mg/L
BY-AP-MW-3	DTW	Depth to Water Detail	11/1/2022 7:35	23.14	ft
BY-AP-MW-3	ORP	Oxidation Reduction Potention	11/1/2022 7:35	241.74	mv
BY-AP-MW-3	PH	pH	11/1/2022 7:35	5.05	SU
BY-AP-MW-3	TEMP	Temperature	11/1/2022 7:35	20.82	C
BY-AP-MW-3	TURB	Turbidity	11/1/2022 7:35	1.29	NTU
BY-AP-MW-3	COND	Conductivity	11/1/2022 7:40	42.06	uS/cm
BY-AP-MW-3	DO	DO	11/1/2022 7:40	1.54	mg/L
BY-AP-MW-3	DTW	Depth to Water Detail	11/1/2022 7:40	23.14	ft
BY-AP-MW-3	ORP	Oxidation Reduction Potention	11/1/2022 7:40	255.09	mv
BY-AP-MW-3	PH	pH	11/1/2022 7:40	4.97	SU
BY-AP-MW-3	TEMP	Temperature	11/1/2022 7:40	20.81	C
BY-AP-MW-3	TURB	Turbidity	11/1/2022 7:40	1.36	NTU
BY-AP-MW-3	COND	Conductivity	11/1/2022 7:45	42.37	uS/cm
BY-AP-MW-3	DO	DO	11/1/2022 7:45	1.58	mg/L
BY-AP-MW-3	DTW	Depth to Water Detail	11/1/2022 7:45	23.14	ft
BY-AP-MW-3	ORP	Oxidation Reduction Potention	11/1/2022 7:45	260.33	mv
BY-AP-MW-3	PH	pH	11/1/2022 7:45	5.01	SU
BY-AP-MW-3	SULFIDE	Sulfide	11/1/2022 7:45	0	mg/L
BY-AP-MW-3	TEMP	Temperature	11/1/2022 7:45	20.88	C
BY-AP-MW-3	TURB	Turbidity	11/1/2022 7:45	1.17	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-4	COND	Conductivity	10/31/2022 16:46	121.45	uS/cm
BY-AP-MW-4	DO	DO	10/31/2022 16:46	1.15	mg/L
BY-AP-MW-4	DTW	Depth to Water Detail	10/31/2022 16:46	24.16	ft
BY-AP-MW-4	ORP	Oxidation Reduction Potention	10/31/2022 16:46	298.89	mv
BY-AP-MW-4	PH	pH	10/31/2022 16:46	4.65	SU
BY-AP-MW-4	TEMP	Temperature	10/31/2022 16:46	21.66	C
BY-AP-MW-4	TURB	Turbidity	10/31/2022 16:46	3.02	NTU
BY-AP-MW-4	COND	Conductivity	10/31/2022 16:51	120.39	uS/cm
BY-AP-MW-4	DO	DO	10/31/2022 16:51	1.14	mg/L
BY-AP-MW-4	DTW	Depth to Water Detail	10/31/2022 16:51	24.16	ft
BY-AP-MW-4	ORP	Oxidation Reduction Potention	10/31/2022 16:51	328.15	mv
BY-AP-MW-4	PH	pH	10/31/2022 16:51	4.6	SU
BY-AP-MW-4	TEMP	Temperature	10/31/2022 16:51	21.58	C
BY-AP-MW-4	TURB	Turbidity	10/31/2022 16:51	1.95	NTU
BY-AP-MW-4	COND	Conductivity	10/31/2022 16:56	120.31	uS/cm
BY-AP-MW-4	DO	DO	10/31/2022 16:56	1.15	mg/L
BY-AP-MW-4	DTW	Depth to Water Detail	10/31/2022 16:56	24.16	ft
BY-AP-MW-4	ORP	Oxidation Reduction Potention	10/31/2022 16:56	340.53	mv
BY-AP-MW-4	PH	pH	10/31/2022 16:56	4.63	SU
BY-AP-MW-4	TEMP	Temperature	10/31/2022 16:56	21.58	C
BY-AP-MW-4	TURB	Turbidity	10/31/2022 16:56	1.05	NTU
BY-AP-MW-4	COND	Conductivity	10/31/2022 17:01	120.23	uS/cm
BY-AP-MW-4	DO	DO	10/31/2022 17:01	1.13	mg/L
BY-AP-MW-4	DTW	Depth to Water Detail	10/31/2022 17:01	24.16	ft
BY-AP-MW-4	ORP	Oxidation Reduction Potention	10/31/2022 17:01	349.67	mv
BY-AP-MW-4	PH	pH	10/31/2022 17:01	4.65	SU
BY-AP-MW-4	TEMP	Temperature	10/31/2022 17:01	21.58	C
BY-AP-MW-4	TURB	Turbidity	10/31/2022 17:01	0.71	NTU
BY-AP-MW-4	COND	Conductivity	10/31/2022 17:06	120.44	uS/cm
BY-AP-MW-4	DO	DO	10/31/2022 17:06	1.13	mg/L
BY-AP-MW-4	DTW	Depth to Water Detail	10/31/2022 17:06	24.16	ft
BY-AP-MW-4	ORP	Oxidation Reduction Potention	10/31/2022 17:06	356.26	mv
BY-AP-MW-4	PH	pH	10/31/2022 17:06	4.65	SU
BY-AP-MW-4	SULFIDE	Sulfide	10/31/2022 17:06	0	mg/L
BY-AP-MW-4	TEMP	Temperature	10/31/2022 17:06	21.57	C
BY-AP-MW-4	TURB	Turbidity	10/31/2022 17:06	0.55	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-5	COND	Conductivity	10/31/2022 15:40	318.09	uS/cm
BY-AP-MW-5	DO	DO	10/31/2022 15:40	0.1	mg/L
BY-AP-MW-5	DTW	Depth to Water Detail	10/31/2022 15:40	26.42	ft
BY-AP-MW-5	ORP	Oxidation Reduction Potention	10/31/2022 15:40	-35.48	mv
BY-AP-MW-5	PH	pH	10/31/2022 15:40	6	SU
BY-AP-MW-5	TEMP	Temperature	10/31/2022 15:40	22.06	C
BY-AP-MW-5	TURB	Turbidity	10/31/2022 15:40	1.24	NTU
BY-AP-MW-5	COND	Conductivity	10/31/2022 15:45	315.43	uS/cm
BY-AP-MW-5	DO	DO	10/31/2022 15:45	0.09	mg/L
BY-AP-MW-5	DTW	Depth to Water Detail	10/31/2022 15:45	26.42	ft
BY-AP-MW-5	ORP	Oxidation Reduction Potention	10/31/2022 15:45	-35.25	mv
BY-AP-MW-5	PH	pH	10/31/2022 15:45	5.96	SU
BY-AP-MW-5	TEMP	Temperature	10/31/2022 15:45	22.04	C
BY-AP-MW-5	TURB	Turbidity	10/31/2022 15:45	0.46	NTU
BY-AP-MW-5	COND	Conductivity	10/31/2022 15:50	311.06	uS/cm
BY-AP-MW-5	DO	DO	10/31/2022 15:50	0.08	mg/L
BY-AP-MW-5	DTW	Depth to Water Detail	10/31/2022 15:50	26.42	ft
BY-AP-MW-5	ORP	Oxidation Reduction Potention	10/31/2022 15:50	-36.48	mv
BY-AP-MW-5	PH	pH	10/31/2022 15:50	5.97	SU
BY-AP-MW-5	TEMP	Temperature	10/31/2022 15:50	22	C
BY-AP-MW-5	TURB	Turbidity	10/31/2022 15:50	0.43	NTU
BY-AP-MW-5	COND	Conductivity	10/31/2022 15:55	310.26	uS/cm
BY-AP-MW-5	DO	DO	10/31/2022 15:55	0.08	mg/L
BY-AP-MW-5	DTW	Depth to Water Detail	10/31/2022 15:55	26.42	ft
BY-AP-MW-5	ORP	Oxidation Reduction Potention	10/31/2022 15:55	-37.62	mv
BY-AP-MW-5	PH	pH	10/31/2022 15:55	5.99	SU
BY-AP-MW-5	SULFIDE	Sulfide	10/31/2022 15:55	0	mg/L
BY-AP-MW-5	TEMP	Temperature	10/31/2022 15:55	21.99	C
BY-AP-MW-5	TURB	Turbidity	10/31/2022 15:55	0.58	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-5V	COND	Conductivity	10/31/2022 14:48	198.24	uS/cm
BY-AP-MW-5V	DO	DO	10/31/2022 14:48	1.16	mg/L
BY-AP-MW-5V	DTW	Depth to Water Detail	10/31/2022 14:48	26.39	ft
BY-AP-MW-5V	ORP	Oxidation Reduction Potention	10/31/2022 14:48	137.93	mv
BY-AP-MW-5V	PH	pH	10/31/2022 14:48	5.86	SU
BY-AP-MW-5V	TEMP	Temperature	10/31/2022 14:48	21.87	C
BY-AP-MW-5V	TURB	Turbidity	10/31/2022 14:48	12.5	NTU
BY-AP-MW-5V	COND	Conductivity	10/31/2022 14:53	199.76	uS/cm
BY-AP-MW-5V	DO	DO	10/31/2022 14:53	1.07	mg/L
BY-AP-MW-5V	DTW	Depth to Water Detail	10/31/2022 14:53	26.39	ft
BY-AP-MW-5V	ORP	Oxidation Reduction Potention	10/31/2022 14:53	154.8	mv
BY-AP-MW-5V	PH	pH	10/31/2022 14:53	5.88	SU
BY-AP-MW-5V	TEMP	Temperature	10/31/2022 14:53	21.84	C
BY-AP-MW-5V	TURB	Turbidity	10/31/2022 14:53	10.11	NTU
BY-AP-MW-5V	COND	Conductivity	10/31/2022 14:58	201.33	uS/cm
BY-AP-MW-5V	DO	DO	10/31/2022 14:58	1.03	mg/L
BY-AP-MW-5V	DTW	Depth to Water Detail	10/31/2022 14:58	26.39	ft
BY-AP-MW-5V	ORP	Oxidation Reduction Potention	10/31/2022 14:58	164.52	mv
BY-AP-MW-5V	PH	pH	10/31/2022 14:58	5.86	SU
BY-AP-MW-5V	TEMP	Temperature	10/31/2022 14:58	21.8	C
BY-AP-MW-5V	TURB	Turbidity	10/31/2022 14:58	6.53	NTU
BY-AP-MW-5V	COND	Conductivity	10/31/2022 15:03	202.86	uS/cm
BY-AP-MW-5V	DO	DO	10/31/2022 15:03	1.01	mg/L
BY-AP-MW-5V	DTW	Depth to Water Detail	10/31/2022 15:03	26.39	ft
BY-AP-MW-5V	ORP	Oxidation Reduction Potention	10/31/2022 15:03	169.39	mv
BY-AP-MW-5V	PH	pH	10/31/2022 15:03	5.88	SU
BY-AP-MW-5V	TEMP	Temperature	10/31/2022 15:03	21.73	C
BY-AP-MW-5V	TURB	Turbidity	10/31/2022 15:03	5.34	NTU
BY-AP-MW-5V	COND	Conductivity	10/31/2022 15:08	202.71	uS/cm
BY-AP-MW-5V	DO	DO	10/31/2022 15:08	0.96	mg/L
BY-AP-MW-5V	DTW	Depth to Water Detail	10/31/2022 15:08	26.39	ft
BY-AP-MW-5V	ORP	Oxidation Reduction Potention	10/31/2022 15:08	163.94	mv
BY-AP-MW-5V	PH	pH	10/31/2022 15:08	5.9	SU
BY-AP-MW-5V	SULFIDE	Sulfide	10/31/2022 15:08	0	mg/L
BY-AP-MW-5V	TEMP	Temperature	10/31/2022 15:08	21.74	C
BY-AP-MW-5V	TURB	Turbidity	10/31/2022 15:08	4.39	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-14V	COND	Conductivity	11/1/2022 10:30	956.95	uS/cm
BY-AP-MW-14V	DO	DO	11/1/2022 10:30	0.14	mg/L
BY-AP-MW-14V	DTW	Depth to Water Detail	11/1/2022 10:30	22.31	ft
BY-AP-MW-14V	ORP	Oxidation Reduction Potention	11/1/2022 10:30	-130.54	mv
BY-AP-MW-14V	PH	pH	11/1/2022 10:30	6.92	SU
BY-AP-MW-14V	TEMP	Temperature	11/1/2022 10:30	21.29	C
BY-AP-MW-14V	TURB	Turbidity	11/1/2022 10:30	2.42	NTU
BY-AP-MW-14V	COND	Conductivity	11/1/2022 10:35	940.21	uS/cm
BY-AP-MW-14V	DO	DO	11/1/2022 10:35	0.12	mg/L
BY-AP-MW-14V	DTW	Depth to Water Detail	11/1/2022 10:35	22.31	ft
BY-AP-MW-14V	ORP	Oxidation Reduction Potention	11/1/2022 10:35	-125.96	mv
BY-AP-MW-14V	PH	pH	11/1/2022 10:35	6.89	SU
BY-AP-MW-14V	TEMP	Temperature	11/1/2022 10:35	21.17	C
BY-AP-MW-14V	TURB	Turbidity	11/1/2022 10:35	0.76	NTU
BY-AP-MW-14V	COND	Conductivity	11/1/2022 10:40	932.66	uS/cm
BY-AP-MW-14V	DO	DO	11/1/2022 10:40	0.12	mg/L
BY-AP-MW-14V	DTW	Depth to Water Detail	11/1/2022 10:40	22.31	ft
BY-AP-MW-14V	ORP	Oxidation Reduction Potention	11/1/2022 10:40	-125.24	mv
BY-AP-MW-14V	PH	pH	11/1/2022 10:40	6.9	SU
BY-AP-MW-14V	TEMP	Temperature	11/1/2022 10:40	21.15	C
BY-AP-MW-14V	TURB	Turbidity	11/1/2022 10:40	0.72	NTU
BY-AP-MW-14V	COND	Conductivity	11/1/2022 10:45	923.7	uS/cm
BY-AP-MW-14V	DO	DO	11/1/2022 10:45	0.12	mg/L
BY-AP-MW-14V	DTW	Depth to Water Detail	11/1/2022 10:45	22.31	ft
BY-AP-MW-14V	ORP	Oxidation Reduction Potention	11/1/2022 10:45	-123.73	mv
BY-AP-MW-14V	PH	pH	11/1/2022 10:45	6.9	SU
BY-AP-MW-14V	SULFIDE	Sulfide	11/1/2022 10:45	0	mg/L
BY-AP-MW-14V	TEMP	Temperature	11/1/2022 10:45	21.07	C
BY-AP-MW-14V	TURB	Turbidity	11/1/2022 10:45	0.71	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-15	COND	Conductivity	11/1/2022 9:34	670.06	uS/cm
BY-AP-MW-15	DO	DO	11/1/2022 9:34	0.13	mg/L
BY-AP-MW-15	DTW	Depth to Water Detail	11/1/2022 9:34	21.09	ft
BY-AP-MW-15	ORP	Oxidation Reduction Potention	11/1/2022 9:34	-115.93	mv
BY-AP-MW-15	PH	pH	11/1/2022 9:34	6.66	SU
BY-AP-MW-15	TEMP	Temperature	11/1/2022 9:34	21.66	C
BY-AP-MW-15	TURB	Turbidity	11/1/2022 9:34	2.3	NTU
BY-AP-MW-15	COND	Conductivity	11/1/2022 9:39	643.92	uS/cm
BY-AP-MW-15	DO	DO	11/1/2022 9:39	0.12	mg/L
BY-AP-MW-15	DTW	Depth to Water Detail	11/1/2022 9:39	21.09	ft
BY-AP-MW-15	ORP	Oxidation Reduction Potention	11/1/2022 9:39	-112.53	mv
BY-AP-MW-15	PH	pH	11/1/2022 9:39	6.62	SU
BY-AP-MW-15	TEMP	Temperature	11/1/2022 9:39	21.53	C
BY-AP-MW-15	TURB	Turbidity	11/1/2022 9:39	3.26	NTU
BY-AP-MW-15	COND	Conductivity	11/1/2022 9:44	633.09	uS/cm
BY-AP-MW-15	DO	DO	11/1/2022 9:44	0	mg/L
BY-AP-MW-15	DTW	Depth to Water Detail	11/1/2022 9:44	21.09	ft
BY-AP-MW-15	ORP	Oxidation Reduction Potention	11/1/2022 9:44	-111.88	mv
BY-AP-MW-15	PH	pH	11/1/2022 9:44	6.62	SU
BY-AP-MW-15	TEMP	Temperature	11/1/2022 9:44	21.6	C
BY-AP-MW-15	TURB	Turbidity	11/1/2022 9:44	2.67	NTU
BY-AP-MW-15	COND	Conductivity	11/1/2022 9:49	629.63	uS/cm
BY-AP-MW-15	DO	DO	11/1/2022 9:49	0.1	mg/L
BY-AP-MW-15	DTW	Depth to Water Detail	11/1/2022 9:49	21.09	ft
BY-AP-MW-15	ORP	Oxidation Reduction Potention	11/1/2022 9:49	-112.69	mv
BY-AP-MW-15	PH	pH	11/1/2022 9:49	6.64	SU
BY-AP-MW-15	SULFIDE	Sulfide	11/1/2022 9:49	0	mg/L
BY-AP-MW-15	TEMP	Temperature	11/1/2022 9:49	21.53	C
BY-AP-MW-15	TURB	Turbidity	11/1/2022 9:49	1.37	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-16	COND	Conductivity	11/1/2022 8:27	594.95	uS/cm
BY-AP-MW-16	DO	DO	11/1/2022 8:27	0.15	mg/L
BY-AP-MW-16	DTW	Depth to Water Detail	11/1/2022 8:27	21.98	ft
BY-AP-MW-16	ORP	Oxidation Reduction Potention	11/1/2022 8:27	-27.24	mv
BY-AP-MW-16	PH	pH	11/1/2022 8:27	5.78	SU
BY-AP-MW-16	TEMP	Temperature	11/1/2022 8:27	21.39	C
BY-AP-MW-16	TURB	Turbidity	11/1/2022 8:27	1.05	NTU
BY-AP-MW-16	COND	Conductivity	11/1/2022 8:32	580.15	uS/cm
BY-AP-MW-16	DO	DO	11/1/2022 8:32	0.14	mg/L
BY-AP-MW-16	DTW	Depth to Water Detail	11/1/2022 8:32	21.98	ft
BY-AP-MW-16	ORP	Oxidation Reduction Potention	11/1/2022 8:32	-27.81	mv
BY-AP-MW-16	PH	pH	11/1/2022 8:32	5.75	SU
BY-AP-MW-16	TEMP	Temperature	11/1/2022 8:32	21.36	C
BY-AP-MW-16	TURB	Turbidity	11/1/2022 8:32	4.69	NTU
BY-AP-MW-16	COND	Conductivity	11/1/2022 8:37	550.25	uS/cm
BY-AP-MW-16	DO	DO	11/1/2022 8:37	0.21	mg/L
BY-AP-MW-16	DTW	Depth to Water Detail	11/1/2022 8:37	21.98	ft
BY-AP-MW-16	ORP	Oxidation Reduction Potention	11/1/2022 8:37	-28.11	mv
BY-AP-MW-16	PH	pH	11/1/2022 8:37	5.77	SU
BY-AP-MW-16	TEMP	Temperature	11/1/2022 8:37	21.26	C
BY-AP-MW-16	TURB	Turbidity	11/1/2022 8:37	0.59	NTU
BY-AP-MW-16	COND	Conductivity	11/1/2022 8:42	529.39	uS/cm
BY-AP-MW-16	DO	DO	11/1/2022 8:42	0.36	mg/L
BY-AP-MW-16	DTW	Depth to Water Detail	11/1/2022 8:42	21.98	ft
BY-AP-MW-16	ORP	Oxidation Reduction Potention	11/1/2022 8:42	-27.66	mv
BY-AP-MW-16	PH	pH	11/1/2022 8:42	5.79	SU
BY-AP-MW-16	TEMP	Temperature	11/1/2022 8:42	21.31	C
BY-AP-MW-16	TURB	Turbidity	11/1/2022 8:42	0.77	NTU
BY-AP-MW-16	COND	Conductivity	11/1/2022 8:47	469.9	uS/cm
BY-AP-MW-16	DO	DO	11/1/2022 8:47	0.14	mg/L
BY-AP-MW-16	DTW	Depth to Water Detail	11/1/2022 8:47	21.98	ft
BY-AP-MW-16	ORP	Oxidation Reduction Potention	11/1/2022 8:47	-26.89	mv
BY-AP-MW-16	PH	pH	11/1/2022 8:47	5.78	SU
BY-AP-MW-16	TEMP	Temperature	11/1/2022 8:47	21.52	C
BY-AP-MW-16	TURB	Turbidity	11/1/2022 8:47	1.3	NTU
BY-AP-MW-16	COND	Conductivity	11/1/2022 8:52	594.12	uS/cm
BY-AP-MW-16	DO	DO	11/1/2022 8:52	0.13	mg/L
BY-AP-MW-16	DTW	Depth to Water Detail	11/1/2022 8:52	21.98	ft
BY-AP-MW-16	ORP	Oxidation Reduction Potention	11/1/2022 8:52	-26.74	mv
BY-AP-MW-16	PH	pH	11/1/2022 8:52	5.76	SU
BY-AP-MW-16	TEMP	Temperature	11/1/2022 8:52	21.48	C
BY-AP-MW-16	TURB	Turbidity	11/1/2022 8:52	0.42	NTU
BY-AP-MW-16	COND	Conductivity	11/1/2022 8:57	594.57	uS/cm
BY-AP-MW-16	DO	DO	11/1/2022 8:57	0.12	mg/L
BY-AP-MW-16	DTW	Depth to Water Detail	11/1/2022 8:57	21.98	ft
BY-AP-MW-16	ORP	Oxidation Reduction Potention	11/1/2022 8:57	-26.86	mv
BY-AP-MW-16	PH	pH	11/1/2022 8:57	5.76	SU
BY-AP-MW-16	TEMP	Temperature	11/1/2022 8:57	21.43	C
BY-AP-MW-16	TURB	Turbidity	11/1/2022 8:57	1.22	NTU
BY-AP-MW-16	COND	Conductivity	11/1/2022 9:02	595.22	uS/cm
BY-AP-MW-16	DO	DO	11/1/2022 9:02	0.13	mg/L
BY-AP-MW-16	DTW	Depth to Water Detail	11/1/2022 9:02	21.98	ft
BY-AP-MW-16	ORP	Oxidation Reduction Potention	11/1/2022 9:02	-27.67	mv
BY-AP-MW-16	PH	pH	11/1/2022 9:02	5.78	SU
BY-AP-MW-16	SULFIDE	Sulfide	11/1/2022 9:02	0	mg/L
BY-AP-MW-16	TEMP	Temperature	11/1/2022 9:02	21.51	C
BY-AP-MW-16	TURB	Turbidity	11/1/2022 9:02	0.35	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-17V	COND	Conductivity	10/31/2022 12:23	3222.4	uS/cm
BY-AP-MW-17V	DO	DO	10/31/2022 12:23	0.14	mg/L
BY-AP-MW-17V	DTW	Depth to Water Detail	10/31/2022 12:23	18.23	ft
BY-AP-MW-17V	ORP	Oxidation Reduction Potention	10/31/2022 12:23	45.35	mv
BY-AP-MW-17V	PH	pH	10/31/2022 12:23	6.39	SU
BY-AP-MW-17V	TEMP	Temperature	10/31/2022 12:23	21.89	C
BY-AP-MW-17V	TURB	Turbidity	10/31/2022 12:23	3.3	NTU
BY-AP-MW-17V	COND	Conductivity	10/31/2022 12:28	3159.97	uS/cm
BY-AP-MW-17V	DO	DO	10/31/2022 12:28	0.13	mg/L
BY-AP-MW-17V	DTW	Depth to Water Detail	10/31/2022 12:28	18.23	ft
BY-AP-MW-17V	ORP	Oxidation Reduction Potention	10/31/2022 12:28	31.33	mv
BY-AP-MW-17V	PH	pH	10/31/2022 12:28	6.39	SU
BY-AP-MW-17V	TEMP	Temperature	10/31/2022 12:28	21.81	C
BY-AP-MW-17V	TURB	Turbidity	10/31/2022 12:28	1.86	NTU
BY-AP-MW-17V	COND	Conductivity	10/31/2022 12:33	3159.87	uS/cm
BY-AP-MW-17V	DO	DO	10/31/2022 12:33	0.14	mg/L
BY-AP-MW-17V	DTW	Depth to Water Detail	10/31/2022 12:33	18.23	ft
BY-AP-MW-17V	ORP	Oxidation Reduction Potention	10/31/2022 12:33	25.08	mv
BY-AP-MW-17V	PH	pH	10/31/2022 12:33	6.4	SU
BY-AP-MW-17V	TEMP	Temperature	10/31/2022 12:33	21.8	C
BY-AP-MW-17V	TURB	Turbidity	10/31/2022 12:33	1.21	NTU
BY-AP-MW-17V	COND	Conductivity	10/31/2022 12:38	3166.4	uS/cm
BY-AP-MW-17V	DO	DO	10/31/2022 12:38	0.14	mg/L
BY-AP-MW-17V	DTW	Depth to Water Detail	10/31/2022 12:38	18.23	ft
BY-AP-MW-17V	ORP	Oxidation Reduction Potention	10/31/2022 12:38	23.08	mv
BY-AP-MW-17V	PH	pH	10/31/2022 12:38	6.4	SU
BY-AP-MW-17V	SULFIDE	Sulfide	10/31/2022 12:38	0	mg/L
BY-AP-MW-17V	TEMP	Temperature	10/31/2022 12:38	21.81	C
BY-AP-MW-17V	TURB	Turbidity	10/31/2022 12:38	1.61	NTU

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:12	373.29	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:12	0.08	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:12	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:12	-78.64	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:12	6.3	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:12	21.68	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:12	151	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:17	377.26	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:17	0.08	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:17	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:17	-77.2	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:17	6.3	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:17	21.53	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:17	49.9	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:22	378.18	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:22	0.08	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:22	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:22	-81.87	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:22	6.28	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:22	21.53	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:22	48.4	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:27	381.24	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:27	0.07	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:27	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:27	-84.38	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:27	6.28	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:27	21.49	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:27	43.3	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:32	382.24	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:32	0.07	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:32	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:32	-87.23	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:32	6.3	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:32	21.5	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:32	29.5	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:37	382.7	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:37	0.07	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:37	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:37	-88.52	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:37	6.31	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:37	21.53	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:37	18.7	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:42	385.22	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:42	0.07	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:42	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:42	-89.63	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:42	6.32	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:42	21.55	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:42	12.2	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:47	386.33	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:47	0.07	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:47	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:47	-89.13	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:47	6.31	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:47	21.55	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:47	13	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:52	388.34	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:52	0.07	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:52	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:52	-90.29	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:52	6.33	SU
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:52	21.54	C

**Field Parameters Summary
Plant Barry Ash Pond**

WELL_ID	#PARAMETER	DESCRIPTION	TIME OF READING	VALUE	UNIT
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:52	10.84	NTU
BY-AP-MW-17H	COND	Conductivity	10/31/2022 13:57	391.94	uS/cm
BY-AP-MW-17H	DO	DO	10/31/2022 13:57	0.07	mg/L
BY-AP-MW-17H	DTW	Depth to Water Detail	10/31/2022 13:57	17.98	ft
BY-AP-MW-17H	ORP	Oxidation Reduction Potention	10/31/2022 13:57	-91.35	mv
BY-AP-MW-17H	PH	pH	10/31/2022 13:57	6.34	SU
BY-AP-MW-17H	SULFIDE	Sulfide	10/31/2022 13:57	0	mg/L
BY-AP-MW-17H	TEMP	Temperature	10/31/2022 13:57	21.57	C
BY-AP-MW-17H	TURB	Turbidity	10/31/2022 13:57	9.51	NTU

Alabama Power
General Test Laboratory
744 County Road 87, GSC #8
Calera, AL 35040
205-664-6001

Analytical Report



Sample Group : WMWBARAP_1390

Project/Site : Barry Ash Pond
Bucks, AL 36512

For : Southern Company Services
3535 Colonnade Parkway
Birmingham, AL 35243

Attention : Dustin Brooks & Greg Dyer

Released By : Brooke Caton
tbwill@southernco.com
(205) 664-6101

December 16, 2022

Dear Dustin Brooks,

Enclosed are the analytical results for sample(s) received by the laboratory between November 02, 2022 and November 03, 2022. All results reported herein conform to the laboratory's most current Quality Assurance Manual. Results marked with an asterisk conform to the most current applicable TNI/NELAC requirements. Exceptions will be noted in the body of the report.

Laboratory certification ID: E571114
Issued By: State of Florida, Department of Health
Expiration: June 30, 2023

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

Sincerely,

Quality Control: **Brooke
Caton**

Digitally signed by Brooke
Caton
Date: 2022.12.19
08:27:33 -06'00'

Supervision: **T Durant
Maske**

Digitally signed by T Durant Maske
DN: cn=T Durant Maske, gn=T Durant Maske, o=US
United States, |u.S. United States
e=tdmaske@southernco.com
Reason: I am the author of this document
Location:
Date: 2022-12-20 10:37:06-00



REPORT OF LABORATORY ANALYSIS

This Certificate states the physical and/or chemical characteristics of the sample as submitted.
This document shall not be reproduced, except in full, without written consent from
Alabama Power's General Test Laboratory.



Total Metals ICP

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	741008	WMWBARAP_1390
BC19902	741008	WMWBARAP_1390
BC19903	741008	WMWBARAP_1390
BC19904	741008	WMWBARAP_1390
BC19905	741008	WMWBARAP_1390
BC19906	741008	WMWBARAP_1390
BC19907	741008	WMWBARAP_1390
BC19908	741008	WMWBARAP_1390
BC19909	741008	WMWBARAP_1390
BC19910	741008	WMWBARAP_1390
BC19911	741009	WMWBARAP_1390
BC19912	741009	WMWBARAP_1390
BC19913	741009	WMWBARAP_1390
BC19914	741009	WMWBARAP_1390
BC19915	741009	WMWBARAP_1390
BC19916	741009	WMWBARAP_1390
BC19917	741009	WMWBARAP_1390
BC19918	741009	WMWBARAP_1390
BC19919	741009	WMWBARAP_1390
BC19920	741009	WMWBARAP_1390
BC19921	741010	WMWBARAP_1390
BC19922	741010	WMWBARAP_1390
BC19923	741010	WMWBARAP_1390
BC19924	741010	WMWBARAP_1390
BC19925	741010	WMWBARAP_1390
BC19926	741010	WMWBARAP_1390
BC19927	741010	WMWBARAP_1390
BC19928	741010	WMWBARAP_1390
BC19929	741010	WMWBARAP_1390
BC19930	741010	WMWBARAP_1390
BC19931	741011	WMWBARAP_1390

BC19932	741011	WMWBARAP_1390
BC19933	741011	WMWBARAP_1390
BC19934	741011	WMWBARAP_1390
BC20086	741011	WMWBARAP_1390
BC20087	741011	WMWBARAP_1390
BC20088	741011	WMWBARAP_1390
BC20089	741011	WMWBARAP_1390
BC20090	741011	WMWBARAP_1390
BC20091	741011	WMWBARAP_1390
BC20092	741012	WMWBARAP_1390
BC20093	741012	WMWBARAP_1390
BC20094	741012	WMWBARAP_1390
BC20095	741012	WMWBARAP_1390
BC20096	741012	WMWBARAP_1390
BC20097	741012	WMWBARAP_1390
BC20098	741012	WMWBARAP_1390

4. All of the above samples were analyzed by EPA 200.7 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
 - BC19910 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC20091 Calcium and Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC20098 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC19901	Iron	101.5
BC19902	Iron, Sodium	10.15
BC19903	Iron, Sodium	10.15
BC19905	Sodium	10.15
BC19906	Iron	101.5
BC19907	Iron	101.5
BC19909	Calcium, Iron	101.5
BC19910	Iron, Sodium	101.5
BC19911	Iron, Sodium	101.5
BC19912	Iron, Sodium	101.5
BC19913	Iron, Sodium	101.5
BC19914	Calcium	10.15
BC19914	Sodium	101.5
BC19915	Iron	101.5
BC19917	Iron	101.5
BC19918	Iron	101.5
BC19921	Iron	101.5
BC19922	Iron, Sodium	101.5
BC19924	Iron, Sodium	10.15
BC19925	Iron	101.5
BC19926	Iron, Sodium	101.5
BC19927	Iron, Sodium	101.5
BC19931	Sodium	10.15

Case Narrative

BC19932	Iron	101.5
BC19933	Iron	101.5
BC20086	Iron, Sodium	101.5
BC20087	Iron, Sodium	10.15
BC20088	Iron, Sodium	101.5
BC20089	Iron	101.5
BC20091	Calcium, Iron	101.5
BC20093	Iron	101.5
BC20094	Sodium	10.15
BC20095	Iron, Sodium	10.15
BC20096	Sodium	10.15
BC20096	Iron	101.5
BC20097	Iron, Sodium	101.5
BC20098	Iron, Sodium	101.5

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICP

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	740818	WMWBARAP_1390
BC19902	740818	WMWBARAP_1390
BC19903	740818, 742863	WMWBARAP_1390
BC19905	740818, 742863	WMWBARAP_1390
BC19906	740818	WMWBARAP_1390
BC19907	740818	WMWBARAP_1390
BC19909	740818	WMWBARAP_1390
BC19910	740818, 742863	WMWBARAP_1390
BC19911	740818	WMWBARAP_1390
BC19912	740818	WMWBARAP_1390
BC19913	740819	WMWBARAP_1390
BC19914	740819	WMWBARAP_1390
BC19915	740819	WMWBARAP_1390
BC19916	740819	WMWBARAP_1390
BC19917	740819	WMWBARAP_1390
BC19918	740819	WMWBARAP_1390
BC19919	740819	WMWBARAP_1390
BC19920	740819	WMWBARAP_1390
BC19921	740819	WMWBARAP_1390
BC19922	740819	WMWBARAP_1390
BC19924	740820	WMWBARAP_1390
BC19925	740820	WMWBARAP_1390
BC19926	740820	WMWBARAP_1390
BC19927	740820	WMWBARAP_1390
BC19928	740820	WMWBARAP_1390
BC19929	740820	WMWBARAP_1390
BC19930	740820	WMWBARAP_1390
BC19931	740820	WMWBARAP_1390
BC19932	740820	WMWBARAP_1390
BC19933	740820	WMWBARAP_1390
BC20086	740821	WMWBARAP_1390

BC20087	740821	WMWBARAP_1390
BC20088	740821	WMWBARAP_1390
BC20089	740821	WMWBARAP_1390
BC20091	740821	WMWBARAP_1390
BC20092	740821	WMWBARAP_1390
BC20093	740821	WMWBARAP_1390
BC20094	740821	WMWBARAP_1390
BC20095	740821	WMWBARAP_1390
BC20096	740821	WMWBARAP_1390
BC20097	740822	WMWBARAP_1390
BC20098	740822	WMWBARAP_1390

4. All of the above samples were analyzed and prepared by EPA 200.7 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed, and all criteria were met.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were analyzed, and all criteria were met.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each batch passed all acceptance criteria for all requested analytes.
- All calibration curve requirements were within acceptance criteria.
- All sample internal standard criteria were met.
- The spectral interference check associated with EPA 200.7 was analyzed and all acceptance criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Case Narrative

- A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for accuracy were met except for the following:
 - BC19910 Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC19912 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC19922 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC19933 Iron MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC20096 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - BC20098 Iron and Sodium MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICP batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC19901	Iron	101.5
BC19902	Iron, Sodium	10.15
BC19903	Iron, Sodium	10.15
BC19905	Sodium	10.15
BC19906	Iron	101.5
BC19907	Iron	101.5
BC19909	Calcium, Iron	101.5
BC19910	Iron	101.5
BC19910	Sodium	10.15
BC19911	Iron	101.5
BC19911	Sodium	10.15
BC19912	Iron	101.5
BC19912	Sodium	10.15
BC19913	Iron	101.5
BC19913	Sodium	10.15
BC19914	Sodium	101.5
BC19914	Calcium, Magnesium	10.15
BC19915	Iron	101.5
BC19917	Iron	101.5
BC19918	Iron	101.5
BC19921	Iron	101.5
BC19922	Iron	101.5
BC19922	Sodium	10.15
BC19924	Iron, Sodium	10.15
BC19925	Iron	101.5
BC19926	Iron, Sodium	101.5

Case Narrative

BC19927	Iron, Sodium	101.5
BC19931	Sodium	10.15
BC19932	Iron	101.5
BC19933	Iron	101.5
BC20086	Sodium	10.15
BC20086	Iron	101.5
BC20087	Sodium	10.15
BC20087	Iron	101.5
BC20088	Iron, Sodium	101.5
BC20089	Iron	101.5
BC20091	Calcium, Iron	101.5
BC20093	Iron	101.5
BC20094	Sodium	10.15
BC20095	Iron, Sodium	10.15
BC20096	Iron, Sodium	10.15
BC20097	Iron, Sodium	101.5
BC20098	Iron, Sodium	101.5

8. The raw data results are shown with dilution factors included.

Total Metals ICPMS

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	741783	WMWBARAP_1390
BC19902	741783	WMWBARAP_1390
BC19903	741783	WMWBARAP_1390
BC19904	741783	WMWBARAP_1390
BC19905	741783	WMWBARAP_1390
BC19906	741783	WMWBARAP_1390
BC19907	741783	WMWBARAP_1390
BC19908	741783	WMWBARAP_1390
BC19909	741783	WMWBARAP_1390
BC19910	741783	WMWBARAP_1390
BC19911	741784	WMWBARAP_1390
BC19912	741784	WMWBARAP_1390
BC19913	741784	WMWBARAP_1390
BC19914	741784	WMWBARAP_1390
BC19915	741784	WMWBARAP_1390
BC19916	741784	WMWBARAP_1390
BC19917	741784	WMWBARAP_1390
BC19918	741784	WMWBARAP_1390
BC19919	741784	WMWBARAP_1390
BC19920	741784	WMWBARAP_1390
BC19921	741785	WMWBARAP_1390
BC19922	741785	WMWBARAP_1390
BC19923	741785	WMWBARAP_1390
BC19924	741785	WMWBARAP_1390
BC19925	741785	WMWBARAP_1390
BC19926	741785	WMWBARAP_1390
BC19927	741785	WMWBARAP_1390
BC19928	741785	WMWBARAP_1390
BC19929	741785	WMWBARAP_1390
BC19930	741785	WMWBARAP_1390
BC19931	741786	WMWBARAP_1390

BC19932	741786	WMWBARAP_1390
BC19933	741786	WMWBARAP_1390
BC19934	741786	WMWBARAP_1390
BC20086	741786	WMWBARAP_1390
BC20087	741786	WMWBARAP_1390
BC20088	741786	WMWBARAP_1390
BC20089	741786	WMWBARAP_1390
BC20090	741786	WMWBARAP_1390
BC20091	741786	WMWBARAP_1390
BC20092	741787	WMWBARAP_1390
BC20093	741787	WMWBARAP_1390
BC20094	741787	WMWBARAP_1390
BC20095	741787	WMWBARAP_1390
BC20096	741787	WMWBARAP_1390
BC20097	741787	WMWBARAP_1390
BC20098	741787	WMWBARAP_1390

4. All of the above samples were analyzed by EPA 200.8 and prepared by EPA 1638.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC20091 Manganese MS and/or MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC19901	Manganese	5.075
BC19907	Manganese	5.075
BC19914	Manganese	5.075
BC19925	Manganese	5.075
BC20086	Manganese	5.075
BC20089	Manganese	5.075
BC20091	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Dissolved Metals ICPMS

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	741601	WMWBARAP_1390
BC19902	741601	WMWBARAP_1390
BC19903	741601	WMWBARAP_1390
BC19905	741601	WMWBARAP_1390
BC19906	741601	WMWBARAP_1390
BC19907	741601	WMWBARAP_1390
BC19909	741601	WMWBARAP_1390
BC19910	741601	WMWBARAP_1390
BC19911	741601	WMWBARAP_1390
BC19912	741601	WMWBARAP_1390
BC19913	741602	WMWBARAP_1390
BC19914	741602	WMWBARAP_1390
BC19915	741602	WMWBARAP_1390
BC19916	741602	WMWBARAP_1390
BC19917	741602	WMWBARAP_1390
BC19918	741602	WMWBARAP_1390
BC19919	741602	WMWBARAP_1390
BC19920	741602	WMWBARAP_1390
BC19921	741602	WMWBARAP_1390
BC19922	741602	WMWBARAP_1390
BC19924	741603	WMWBARAP_1390
BC19925	741603	WMWBARAP_1390
BC19926	741603	WMWBARAP_1390
BC19927	741603	WMWBARAP_1390
BC19928	741603	WMWBARAP_1390
BC19929	741603	WMWBARAP_1390
BC19930	741603	WMWBARAP_1390
BC19931	741603	WMWBARAP_1390
BC19932	741603	WMWBARAP_1390
BC19933	741603	WMWBARAP_1390
BC20086	741604	WMWBARAP_1390

BC20087	741604	WMWBARAP_1390
BC20088	741604	WMWBARAP_1390
BC20089	741604	WMWBARAP_1390
BC20091	741604	WMWBARAP_1390
BC20092	741604	WMWBARAP_1390
BC20093	741604	WMWBARAP_1390
BC20094	741604	WMWBARAP_1390
BC20095	741604	WMWBARAP_1390
BC20096	741604	WMWBARAP_1390
BC20097	741605	WMWBARAP_1390
BC20098	741605	WMWBARAP_1390

4. All of the above samples were analyzed and prepared by EPA 200.8 for dissolved analysis.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All tune and calibration met criteria for all requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for all requested analytes.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analytes.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analytes.
- Due to no filtered method blank (MB) or laboratory control sample (LCS) submitted with the sample set, an unfiltered MB and LCS were analyzed with the samples in each batch.
- All laboratory control sample criteria were met.
- The method blank associated with each preparation batch passed all acceptance criteria for all requested analytes.
- The interference check samples associated with EPA 200.8 were analyzed and passed for all requested analytes.
- All sample internal standard criteria were met.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

- A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for accuracy were met, except for the following:
 - BC19912 Manganese MS/MSD spike levels were less than 30% of the sample concentrations.
 - A matrix spike and matrix spike duplicate were analyzed with each ICPMS batch. All acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC19901	Manganese	5.075
BC19907	Manganese	5.075
BC19914	Manganese	5.075
BC19925	Manganese	5.075
BC20086	Manganese	5.075
BC20089	Manganese	5.075
BC20091	Manganese	5.075

8. The raw data results are shown with dilution factors included.

Mercury

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	740954	WMWBARAP_1390
BC19902	740954	WMWBARAP_1390
BC19903	740954	WMWBARAP_1390
BC19904	740954	WMWBARAP_1390
BC19905	740954	WMWBARAP_1390
BC19906	740954	WMWBARAP_1390
BC19907	740954	WMWBARAP_1390
BC19908	740954	WMWBARAP_1390
BC19909	740954	WMWBARAP_1390
BC19910	740954	WMWBARAP_1390
BC19911	740955	WMWBARAP_1390
BC19912	740955	WMWBARAP_1390
BC19913	740955	WMWBARAP_1390
BC19914	740955	WMWBARAP_1390
BC19915	740955	WMWBARAP_1390
BC19916	740955	WMWBARAP_1390
BC19917	740955	WMWBARAP_1390
BC19918	740955	WMWBARAP_1390
BC19919	740955	WMWBARAP_1390
BC19920	740955	WMWBARAP_1390
BC19921	740956	WMWBARAP_1390
BC19922	740956	WMWBARAP_1390
BC19923	740956	WMWBARAP_1390
BC19924	740956	WMWBARAP_1390
BC19925	740956	WMWBARAP_1390
BC19926	740956	WMWBARAP_1390
BC19927	740956	WMWBARAP_1390
BC19928	740956	WMWBARAP_1390
BC19929	740956	WMWBARAP_1390
BC19930	740956	WMWBARAP_1390
BC19931	740957	WMWBARAP_1390

BC19932	740957	WMWBARAP_1390
BC19933	740957	WMWBARAP_1390
BC19934	740957	WMWBARAP_1390
BC20086	740957	WMWBARAP_1390
BC20087	740957	WMWBARAP_1390
BC20088	740957	WMWBARAP_1390
BC20089	740957	WMWBARAP_1390
BC20090	740957	WMWBARAP_1390
BC20091	740957	WMWBARAP_1390
BC20092	740966	WMWBARAP_1390
BC20093	740966	WMWBARAP_1390
BC20094	740966	WMWBARAP_1390
BC20095	740966	WMWBARAP_1390
BC20096	740966	WMWBARAP_1390
BC20097	740966	WMWBARAP_1390
BC20098	740966	WMWBARAP_1390

4. All of the above samples were analyzed and prepared by EPA 245.1.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Prior to sample analysis, an initial calibration verification (ICV) was analyzed, and all criteria were met.
- Following the ICV, an initial calibration blank (ICB) was analyzed and was below the method detection limit for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- A preparation method blank and laboratory control sample were digested and analyzed with the samples in each digestion batch.
- All laboratory control sample criteria were met.
- The method blank associated with each digestion batch was below the limit of quantitation for the requested analyte.
- All calibration met criteria for the requested analyte.
- All response signals were satisfactory.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Revision 5

- A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for accuracy were met, except for the following:
 - BC19930 MS and/or MSD recovery is outside of specification limit.
 - A matrix spike and matrix spike duplicate were digested and analyzed with each analytical batch. All acceptance criteria for precision were met, except for the following:
 - BC19930 Precision is out of specification limit.
7. All samples were analyzed without a dilution.

Total Dissolved Solids

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	740713	WMWBARAP_1390
BC19902	740713	WMWBARAP_1390
BC19903	740713	WMWBARAP_1390
BC19904	740713	WMWBARAP_1390
BC19905	740713	WMWBARAP_1390
BC19906	740713	WMWBARAP_1390
BC19907	740713	WMWBARAP_1390
BC19908	740713	WMWBARAP_1390
BC19909	740714	WMWBARAP_1390
BC19910	740714	WMWBARAP_1390
BC19911	740714	WMWBARAP_1390
BC19912	740714	WMWBARAP_1390
BC19913	740714	WMWBARAP_1390
BC19914	740714	WMWBARAP_1390
BC19915	740714	WMWBARAP_1390
BC19916	740714	WMWBARAP_1390
BC19917	740714	WMWBARAP_1390
BC19918	740714	WMWBARAP_1390
BC19919	740774	WMWBARAP_1390
BC19920	740774	WMWBARAP_1390
BC19921	740774	WMWBARAP_1390
BC19922	740774	WMWBARAP_1390
BC19923	740774	WMWBARAP_1390
BC19924	740774	WMWBARAP_1390
BC19925	740774	WMWBARAP_1390
BC19926	740774	WMWBARAP_1390
BC19927	740774	WMWBARAP_1390
BC19928	740774	WMWBARAP_1390
BC19929	740775	WMWBARAP_1390
BC19930	740775	WMWBARAP_1390
BC19931	740775	WMWBARAP_1390

BC19932	740775	WMWBARAP_1390
BC19933	740775	WMWBARAP_1390
BC19934	740775	WMWBARAP_1390
BC20086	740906	WMWBARAP_1390
BC20087	740906	WMWBARAP_1390
BC20088	740906	WMWBARAP_1390
BC20089	740906	WMWBARAP_1390
BC20090	740906	WMWBARAP_1390
BC20091	741054	WMWBARAP_1390
BC20092	740906	WMWBARAP_1390
BC20093	741054	WMWBARAP_1390
BC20094	740906	WMWBARAP_1390
BC20095	740906	WMWBARAP_1390
BC20096	740906	WMWBARAP_1390
BC20097	740906	WMWBARAP_1390
BC20098	741054	WMWBARAP_1390

4. All of the above samples were analyzed and prepared by Standard Method 2540C.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- A Method Blank was analyzed with each batch. All criteria were met.
- All final weights of samples, standards, and blanks agreed within 0.5mg of the previous weight.
- A sample duplicate was analyzed with each batch. RPD/2 was less than 5%.
- A laboratory control sample was analyzed with each batch. All criteria were met.
- Samples were between 2.5mg and 200mg residue.
- All samples with residue <2.5mg had the maximum volume of 150mL filtered. Affected samples are as follows:
 - BC19904
 - BC19908
 - BC19923
 - BC19934
 - BC20090

Alkalinity

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	741243, 741244	WMWBARAP_1390
BC19902	741243, 741244	WMWBARAP_1390
BC19903	741243, 741244	WMWBARAP_1390
BC19905	741243, 741244	WMWBARAP_1390
BC19906	741243, 741244	WMWBARAP_1390
BC19907	741451, 741452	WMWBARAP_1390
BC19909	741451, 741452	WMWBARAP_1390
BC19910	740818, 742865	WMWBARAP_1390
BC19911	741451, 741452	WMWBARAP_1390
BC19912	741451, 741452	WMWBARAP_1390
BC19913	741451, 741452	WMWBARAP_1390
BC19914	741243, 741244	WMWBARAP_1390
BC19915	741243, 741244	WMWBARAP_1390
BC19916	741451, 741452	WMWBARAP_1390
BC19917	741451, 741452	WMWBARAP_1390
BC19918	741451, 741452	WMWBARAP_1390
BC19919	741451, 741452	WMWBARAP_1390
BC19920	741451, 741452	WMWBARAP_1390
BC19921	741451, 741452	WMWBARAP_1390
BC19922	741451, 741452	WMWBARAP_1390
BC19924	741451, 741452	WMWBARAP_1390
BC19925	741243, 741244	WMWBARAP_1390
BC19926	741243, 741244	WMWBARAP_1390
BC19927	741243, 741244	WMWBARAP_1390
BC19928	741451, 741452	WMWBARAP_1390
BC19929	741451, 741452	WMWBARAP_1390
BC19930	741451, 741452	WMWBARAP_1390
BC19931	741451, 741452	WMWBARAP_1390
BC19932	741451, 741452	WMWBARAP_1390
BC19933	741451, 741452	WMWBARAP_1390
BC20086	741804, 741805	WMWBARAP_1390

BC20087	741804, 741805	WMWBARAP_1390
BC20088	741804, 741805	WMWBARAP_1390
BC20089	741868, 741869	WMWBARAP_1390
BC20091	741868, 741869	WMWBARAP_1390
BC20092	741868, 741869	WMWBARAP_1390
BC20093	741868, 741869	WMWBARAP_1390
BC20094	741804, 741805	WMWBARAP_1390
BC20095	741804, 741805	WMWBARAP_1390
BC20096	741804, 741805	WMWBARAP_1390
BC20097	741868, 741869	WMWBARAP_1390
BC20098	741868, 741869	WMWBARAP_1390

4. All of the above samples were analyzed and prepared by Standard Method 2320B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- An initial pH check was analyzed with each batch. The acceptance criteria were met.
 - A final pH check was analyzed with each batch. The acceptance criteria were met.
 - An alkalinity laboratory control sample was analyzed with each batch. Range criteria of within 10% of true value was met.
 - An alkalinity sample duplicate was analyzed with each batch. Precision criteria less than 10 RPD was met.
7. The following samples had pH>10 and/or TDS>500mg/L. Therefore, the calculations for carbonate and bicarbonate are estimates:
 - BC19941
 - BC19931

Anions

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	741057, 741140, 741294	WMWBARAP_1390
BC19902	741057, 741140, 741294	WMWBARAP_1390
BC19903	741057, 741140, 741294	WMWBARAP_1390
BC19904	741057, 741140, 741294	WMWBARAP_1390
BC19905	741057, 741140, 741294	WMWBARAP_1390
BC19906	741057, 741140, 741294	WMWBARAP_1390
BC19907	741057, 741140, 741294	WMWBARAP_1390
BC19908	741057, 741140, 741294	WMWBARAP_1390
BC19909	741057, 741140, 741294	WMWBARAP_1390
BC19910	741057, 741140, 741294	WMWBARAP_1390
BC19911	741058, 741141, 741295	WMWBARAP_1390
BC19912	741058, 741141, 741295	WMWBARAP_1390
BC19913	741058, 741141, 741295	WMWBARAP_1390
BC19914	741058, 741141, 741295	WMWBARAP_1390
BC19915	741058, 741141, 741295	WMWBARAP_1390
BC19916	741058, 741141, 741295	WMWBARAP_1390
BC19917	741058, 741141, 741295	WMWBARAP_1390
BC19918	741058, 741141, 741295	WMWBARAP_1390
BC19919	741058, 741141, 741295	WMWBARAP_1390
BC19920	741058, 741141, 741295	WMWBARAP_1390
BC19921	741059, 741142, 741296	WMWBARAP_1390
BC19922	741059, 741142, 741296	WMWBARAP_1390
BC19923	741059, 741142, 741296	WMWBARAP_1390
BC19924	741059, 741142, 741296	WMWBARAP_1390
BC19925	741059, 741142, 741296	WMWBARAP_1390
BC19926	741059, 741142, 741296	WMWBARAP_1390
BC19927	741059, 741142, 741296	WMWBARAP_1390
BC19928	741059, 741142, 741296	WMWBARAP_1390
BC19929	741059, 741142, 741296	WMWBARAP_1390
BC19930	741059, 741142, 741296	WMWBARAP_1390
BC19931	741060, 741143, 741297	WMWBARAP_1390

BC19932	741060, 741143, 741297	WMWBARAP_1390
BC19933	741060, 741143, 741297	WMWBARAP_1390
BC19934	741060, 741143, 741297	WMWBARAP_1390
BC20086	741060, 741143, 741297	WMWBARAP_1390
BC20087	741060, 741143, 741297	WMWBARAP_1390
BC20088	741060, 741143, 741297	WMWBARAP_1390
BC20089	741060, 741143, 741297	WMWBARAP_1390
BC20090	741060, 741143, 741297	WMWBARAP_1390
BC20091	741060, 741143, 741297	WMWBARAP_1390
BC20092	741061, 741144, 741298	WMWBARAP_1390
BC20093	741061, 741144, 741298	WMWBARAP_1390
BC20094	741061, 741144, 741298	WMWBARAP_1390
BC20095	741061, 741144, 741298	WMWBARAP_1390
BC20096	741061, 741144, 741298	WMWBARAP_1390
BC20097	741061, 741144, 741298	WMWBARAP_1390
BC20098	741061, 741144, 741298	WMWBARAP_1390

4. All of the above samples were analyzed and prepared by SM4500 Cl E, SM4500 F G, & SM4500 SO4 E.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration met criteria for the requested analyte.
- Prior to sample analysis, an initial calibration verification (ICV), and all criteria were met.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was below the limit of quantitation for the requested analyte.
- All continued calibration verification (CCV) were within the acceptance criteria for the requested analyte.
- All continued calibration blanks (CCB) were below the limit of quantitation for the requested analyte.
- It is noted that the QC summary page typically provides the QC results from the original batch analytical sequence. If dilutions were subsequently performed to bring sample concentrations within the calibration range, any additional QC data from the dilution analyses may need to be obtained from the laboratory. Any qualifications applied to original analyses or dilution re-analyses are based upon QC data available at the time of review.

Matrix Specific Quality Control Procedures:

Similarity of matrix and therefore relevance of matrix specific QC results should not be automatically inferred for any sample other than the sample selected for QC.

Case Narrative

- A matrix spike was analyzed with each batch. Acceptance criteria for accuracy were met, except for the following:
 - BC20098 Sulfate MS and/or MSD recovery is outside of the specification limits.
 - A sample duplicate was analyzed with each batch. Acceptance criteria for precision were met.
7. The following samples were diluted due to the analyzed sample concentration being greater than the high standard of the calibration curve:

<u>Sample ID</u>	<u>Analyte</u>	<u>Dilution Factor</u>
BC19901	Chloride	2
BC19902	Chloride	8
BC19903	Chloride	5
BC19905	Chloride	8
BC19906	Chloride	2
BC19907	Chloride	2
BC19909	Chloride	2
BC19910	Chloride, Sulfate	4, 5
BC19911	Chloride	2
BC19912	Chloride	2
BC19913	Chloride	2
BC19914	Chloride, Sulfate	80, 2
BC19916	Chloride	2
BC19919	Chloride	2
BC19921	Chloride	2
BC19922	Chloride	16
BC19924	Chloride	25
BC19926	Chloride, Sulfate	4, 4
BC19927	Chloride, Sulfate	8, 4
BC19931	Chloride	80
BC20086	Chloride	2
BC20087	Chloride, Sulfate	4, 3
BC20088	Chloride, Sulfate	4, 4
BC20089	Chloride	2
BC20091	Chloride	4
BC20093	Chloride	2
BC20094	Chloride	10
BC20095	Chloride	10
BC20096	Chloride, Sulfate	10, 3
BC20097	Chloride	25
BC20098	Chloride	16

8. The raw data results are shown with dilution factors included.

Nitrate-Nitrite

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	740875	WMWBARAP_1390
BC19902	740875	WMWBARAP_1390
BC19903	740875	WMWBARAP_1390
BC19904	740875	WMWBARAP_1390
BC19905	740875	WMWBARAP_1390
BC19906	740875	WMWBARAP_1390
BC19907	740875	WMWBARAP_1390
BC19908	740875	WMWBARAP_1390
BC19909	740875	WMWBARAP_1390
BC19910	740875	WMWBARAP_1390
BC19911	740876	WMWBARAP_1390
BC19912	740876	WMWBARAP_1390
BC19913	740876	WMWBARAP_1390
BC19914	740876	WMWBARAP_1390
BC19915	740876	WMWBARAP_1390
BC19916	740876	WMWBARAP_1390
BC19917	740876	WMWBARAP_1390
BC19918	740876	WMWBARAP_1390
BC19919	740876	WMWBARAP_1390
BC19920	740876	WMWBARAP_1390
BC19921	740877	WMWBARAP_1390
BC19922	740877	WMWBARAP_1390
BC19923	740877	WMWBARAP_1390
BC19924	740877	WMWBARAP_1390
BC19925	740877	WMWBARAP_1390
BC19926	740877	WMWBARAP_1390
BC19927	740877	WMWBARAP_1390
BC19928	740877	WMWBARAP_1390
BC19929	740877	WMWBARAP_1390
BC19930	740877	WMWBARAP_1390
BC19931	740878	WMWBARAP_1390

BC19932	740878	WMWBARAP_1390
BC19933	740878	WMWBARAP_1390
BC19934	740878	WMWBARAP_1390
BC20086	740878	WMWBARAP_1390
BC20087	740878	WMWBARAP_1390
BC20088	740878	WMWBARAP_1390
BC20089	740878	WMWBARAP_1390
BC20090	740878	WMWBARAP_1390
BC20091	740878	WMWBARAP_1390
BC20092	740879	WMWBARAP_1390
BC20093	740879	WMWBARAP_1390
BC20094	740879	WMWBARAP_1390
BC20095	740879	WMWBARAP_1390
BC20096	740879	WMWBARAP_1390
BC20097	740879	WMWBARAP_1390
BC20098	740879	WMWBARAP_1390

4. All of the above samples were prepared and analyzed for NO_x by EPA 353.2.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- Water baseline report was run and met criteria.
- All calibration met criteria for the requested analytes.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- All continued calibration verification (CCV) were within the acceptance criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and were below limit of detection.
- All continued calibration blanks (CCB) were below the limit of detection.

EPA 353.2 Specific QC:

- Prior to sample analysis, Cadmium coil reduction efficiency check met criteria.
- Matrix Specific QC:
 - A sample duplicate was run and criteria for precision was met, except for the following:
 - BC19910 Precision is invalid due to sample concentration.
 - A matrix spike was run and criteria for accuracy was met, except for the following:
 - BC19910 MS and/or MSD recovery is outside of the specification limits.
 - BC20091 MS and/or MSD recovery is outside of the specification limits.
 - BC20098 MS and/or MSD recovery is outside of the specification limits.
- 7. All samples were analyzed without a dilution factor.

8. The raw data results are shown with dilution factors included.

Total Organic Carbon

Barry Ash Pond

WMWBARAP_1390

1. This report consists of all MWs and corresponding Lab IDs listed on the Chain of Custody.
2. Refer to comments on Chain of Custody for information regarding sample receipt.
3. All standards and solutions meet NELAP traceability requirements and were used within their recommended shelf life.

<u>Sample ID</u>	<u>Batch ID</u>	<u>Project ID</u>
BC19901	740704	WMWBARAP_1390
BC19902	740704	WMWBARAP_1390
BC19903	740704	WMWBARAP_1390
BC19904	740704	WMWBARAP_1390
BC19905	740704	WMWBARAP_1390
BC19906	740704	WMWBARAP_1390
BC19907	740704	WMWBARAP_1390
BC19908	740704	WMWBARAP_1390
BC19909	740704	WMWBARAP_1390
BC19910	740704	WMWBARAP_1390
BC19911	740705	WMWBARAP_1390
BC19912	740705	WMWBARAP_1390
BC19913	740705	WMWBARAP_1390
BC19914	740705	WMWBARAP_1390
BC19915	740705	WMWBARAP_1390
BC19916	740705	WMWBARAP_1390
BC19917	740705	WMWBARAP_1390
BC19918	740705	WMWBARAP_1390
BC19919	740705	WMWBARAP_1390
BC19920	740705	WMWBARAP_1390
BC19921	740706	WMWBARAP_1390
BC19922	740706	WMWBARAP_1390
BC19923	740706	WMWBARAP_1390
BC19924	740706	WMWBARAP_1390
BC19925	740706	WMWBARAP_1390
BC19926	740706	WMWBARAP_1390
BC19927	740706	WMWBARAP_1390
BC19928	740706	WMWBARAP_1390
BC19929	740706	WMWBARAP_1390
BC19930	740706	WMWBARAP_1390
BC19931	740809	WMWBARAP_1390

BC19932	740809	WMWBARAP_1390
BC19933	740809	WMWBARAP_1390
BC19934	740809	WMWBARAP_1390
BC20086	740809	WMWBARAP_1390
BC20087	740809	WMWBARAP_1390
BC20088	740809	WMWBARAP_1390
BC20089	740809	WMWBARAP_1390
BC20090	740809	WMWBARAP_1390
BC20091	740809	WMWBARAP_1390
BC20092	740810	WMWBARAP_1390
BC20093	740810	WMWBARAP_1390
BC20094	740810	WMWBARAP_1390
BC20095	740810	WMWBARAP_1390
BC20096	740810	WMWBARAP_1390
BC20097	740810	WMWBARAP_1390
BC20098	740810	WMWBARAP_1390

4. All of the above samples were prepared and analyzed by Standard Method 5310B.
5. All samples were prepared and analyzed within the established hold times.
6. All in house quality control procedures were followed, as described below.

General Quality Control Procedures:

- All calibration criteria were met.
- Prior to sample analysis, an initial calibration verification (ICV) was analyzed and met all criteria.
- Prior to sample analysis, an initial calibration blank (ICB) was analyzed and was <1/2RL.
- All continued calibration verifications (CCVs) were within the acceptance range.
- All continued calibration blanks (CCBs) were <1/2RL.

Matrix Specific Quality Control Procedures:

- A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for accuracy were met, except for the following:
 - BC19910 MS and/or MSD recovery is outside of the specification limits.
 - BC20091 MS and/or MSD recovery is outside of the specification limits.
 - BC20098 MS and/or MSD recovery is outside of the specification limits.
 - A matrix spike and matrix spike duplicate were analyzed with each batch. All acceptance criteria for precision were met.
7. All samples were analyzed without a dilution factor.
 8. The raw data results are shown with dilution factors included.

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 10/31/22 10:34
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19901

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 10:13		1.015	1.65	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 10:13		1.015	31.3	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 12:35		101.5	87.7	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 10:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 10:13		1.015	10.9	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:13		1	24.8	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 10:13		1.015	11.6	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 10:13		1.015	19.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:22		1.015	1.64	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:22		1.015	29.1	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:16		101.5	86.9	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:22		1.015	10.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:22		1	24.0	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:22		1.015	11.2	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:22		1.015	18.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 11:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 11:25		1.015	0.0124	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 11:25		1.015	0.00934	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 11:25		1.015	0.119	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 11:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 11:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 11:25		1.015	0.000706	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 11:25		1.015	0.000688	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 11:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 16:01		5.075	1.56	mg/L	0.000761	0.005075	
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:25		1.015	0.000165	mg/L	0.000102	0.000203	J
* Potassium, Total	11/8/22 10:56	11/8/22 11:25		1.015	1.06	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 10/31/22 10:34
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19901

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 11:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	0.00947	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	0.129	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	0.000591	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	0.000672	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/8/22 10:48		5.075	1.47	mg/L	0.000761	0.005075	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	0.000195	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	1.05	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	0.000527	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	11/4/22 10:13	11/4/22 12:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:19		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 13:50	11/3/22 13:50		1	0.358	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	181	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	303	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	181	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 16:31	11/2/22 16:31		1	28.8	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-18H

Location Code: WMWBARAP
Collected: 10/31/22 10:34
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19901

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:13	11/8/22 09:13		2	27.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 13:51	11/8/22 13:51		1	0.148	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:43	11/10/22 08:43		1	12.1	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/31/22 10:32	10/31/22 10:32			435.99	uS/cm			FA
pH	10/31/22 10:32	10/31/22 10:32			6.23	SU			FA
Temperature	10/31/22 10:32	10/31/22 10:32			20.24	C			FA
Turbidity	10/31/22 10:32	10/31/22 10:32			3.83	NTU			FA
Sulfide	10/31/22 10:32	10/31/22 10:32			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 10:34
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BC19901

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 10:34
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BC19901

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19912	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	59.1	52.6	5.12	4.25 to 5.75	92.0	70.0 to 130	11.6	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 10:34
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-18H

Laboratory ID Number: BC19901

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19907	Solids, Dissolved	mg/L	0.0000	25.0			327	50.0	40.0 to 60.0			0.610	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 10/31/22 12:08
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19902

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	11/8/22 10:56	11/9/22 10:16		1.015	0.280	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 10:16		1.015	2.36	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:26		10.15	5.95	mg/L	0.08120	0.406	
* Lithium, Total	11/8/22 10:56	11/9/22 10:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 10:16		1.015	1.72	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:16		1	13.2	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 10:16		1.015	6.17	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 13:26		10.15	112	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:26		1.015	0.272	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:26		1.015	2.12	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:45		10.15	5.37	mg/L	0.08120	0.406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:26		1.015	1.68	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:26		1	12.8	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:26		1.015	5.97	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 15:45		10.15	110	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	11/8/22 10:56	11/8/22 11:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 11:29		1.015	0.00743	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 11:29		1.015	0.00873	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 11:29		1.015	0.0188	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 11:29		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 11:29		1.015	0.000263	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 11:29		1.015	0.00239	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 11:29		1.015	0.0558	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:29		1.015	0.00289	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 11:29		1.015	1.23	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 10/31/22 12:08
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19902

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 11:29		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:29		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	0.00914	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	0.0190	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	0.00230	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	0.0530	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	0.00281	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	1.16	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 12:57		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:23		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 13:51	11/3/22 13:51		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	116	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	291	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	116	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 16:49	11/2/22 16:49		1	6.53	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7

Location Code: WMWBARAP
Collected: 10/31/22 12:08
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19902

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:25	11/8/22 09:25		8	95.7	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 13:52	11/8/22 13:52		1	0.381	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:44	11/10/22 08:44		1	33.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/31/22 12:05	10/31/22 12:05			528.67	uS/cm			FA
pH	10/31/22 12:05	10/31/22 12:05			7.07	SU			FA
Temperature	10/31/22 12:05	10/31/22 12:05			20.90	C			FA
Turbidity	10/31/22 12:05	10/31/22 12:05			3.92	NTU			FA
Sulfide	10/31/22 12:05	10/31/22 12:05			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:08
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BC19902

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:08
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BC19902

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19912	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	59.1	52.6	5.12	4.25 to 5.75	92.0	70.0 to 130	11.6	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:08
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7

Laboratory ID Number: BC19902

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19907	Solids, Dissolved	mg/L	0.0000	25.0			327	50.0	40.0 to 60.0			0.610	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7 Dup

Location Code: WMWBARAP
Collected: 10/31/22 12:08
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19903

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 10:20		1.015	0.275	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 10:20		1.015	2.35	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:31		10.15	5.60	mg/L	0.08120	0.406	
* Lithium, Total	11/8/22 10:56	11/9/22 10:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 10:20		1.015	1.70	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:20		1	13.1	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 10:20		1.015	6.13	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 13:31		10.15	103	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:29		1.015	0.272	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:29		1.015	2.12	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:54		10.15	6.84	mg/L	0.08120	0.406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:29		1.015	1.74	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:29		1	12.8	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:29		1.015	5.96	mg/L	0.02030	0.25375	
* Sodium, Dissolved	12/6/22 14:32	12/7/22 13:06		10.15	111	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 11:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 11:32		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 11:32		1.015	0.00919	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 11:32		1.015	0.0188	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 11:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 11:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 11:32		1.015	0.000273	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 11:32		1.015	0.00246	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 11:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 11:32		1.015	0.0552	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:32		1.015	0.00298	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 11:32		1.015	1.19	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7 Dup

Location Code: WMWBARAP
Collected: 10/31/22 12:08
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19903

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 11:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	0.00890	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	0.0199	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	0.00248	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	0.0554	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	0.00300	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	1.17	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:01		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:27		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 13:53	11/3/22 13:53		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	119	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	299	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	119	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 17:05	11/2/22 17:05		1	6.30	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7 Dup

Location Code: WMWBARAP
Collected: 10/31/22 12:08
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19903

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:16	11/8/22 09:16		5	96.0	mg/L	2.50	5	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 13:53	11/8/22 13:53		1	0.376	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:45	11/10/22 08:45		1	33.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/31/22 12:05	10/31/22 12:05			528.67	uS/cm			FA
pH	10/31/22 12:05	10/31/22 12:05			7.07	SU			FA
Temperature	10/31/22 12:05	10/31/22 12:05			20.90	C			FA
Turbidity	10/31/22 12:05	10/31/22 12:05			3.92	NTU			FA
Sulfide	10/31/22 12:05	10/31/22 12:05			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:08
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7 Dup

Laboratory ID Number: BC19903

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:08
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7 Dup

Laboratory ID Number: BC19903

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19910	Sodium, Dissolved	mg/L	0.000108	0.0660	5.00	63.9	62.6	5.00	4.25 to 5.75	142	70.0 to 130	2.06	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:08
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7 Dup

Laboratory ID Number: BC19903

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19907	Solids, Dissolved	mg/L	0.0000	25.0			327	50.0	40.0 to 60.0			0.610	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-1

Location Code: WMWBARAPFB
Collected: 10/31/22 12:30
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19904

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 10:23		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/22 10:56	11/9/22 10:23		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/8/22 10:56	11/9/22 10:23		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/8/22 10:56	11/9/22 10:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 10:23		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:23		1	Not Detected	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 10:23		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	11/8/22 10:56	11/9/22 10:23		1.015	Not Detected	mg/L	0.03045	0.406	U
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 11:36		1.015	0.000214	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:31		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	11/3/22 13:55	11/3/22 13:55		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-1

Location Code: WMWBARAPFB

Collected: 10/31/22 12:30

Customer ID:

Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19904

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 17:20	11/2/22 17:20		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:02	11/8/22 09:02		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 13:55	11/8/22 13:55		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:46	11/10/22 08:46		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 10/31/22 12:30
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BC19904

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 10/31/22 12:30

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BC19904

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 10/31/22 12:30
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond Field Blank-1

Laboratory ID Number: BC19904

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19907	Solids, Dissolved	mg/L	0.0000	25.0			327	50.0	40.0 to 60.0			0.610	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 10/31/22 13:04
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19905

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 10:27		1.015	0.329	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 10:27		1.015	3.61	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 10:27		1.015	2.80	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/22 10:56	11/9/22 10:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 10:27		1.015	0.704	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:27		1	14.7	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 10:27		1.015	6.87	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 13:34		10.15	134	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:32		1.015	0.326	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:32		1.015	1.11	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 13:32		1.015	1.08	mg/L	0.008120	0.0406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:32		1.015	0.505	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:32		1	12.6	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:32		1.015	5.88	mg/L	0.02030	0.25375	
* Sodium, Dissolved	12/6/22 14:32	12/7/22 13:10		10.15	139	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.0635	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.000983	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.0179	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 11:40		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.000391	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.0000779	mg/L	0.000068	0.000203	J
* Lead, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.000114	mg/L	0.000068	0.000203	J
* Manganese, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.0449	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.00124	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 11:40		1.015	0.911	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 10/31/22 13:04
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19905

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 11:40		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:40		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	0.000745	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	0.0139	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	0.0321	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	0.00135	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	0.875	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:35		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 13:57	11/3/22 13:57		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	152	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	357	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	149	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	3.13	mg CaCO3/L			
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 17:38	11/2/22 17:38		1	5.36	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-7V

Location Code: WMWBARAP
Collected: 10/31/22 13:04
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19905

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:26	11/8/22 09:26		8	129	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 13:56	11/8/22 13:56		1	0.428	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:47	11/10/22 08:47		1	6.09	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/31/22 13:02	10/31/22 13:02			642.34	uS/cm			FA
pH	10/31/22 13:02	10/31/22 13:02			7.90	SU			FA
Temperature	10/31/22 13:02	10/31/22 13:02			21.90	C			FA
Turbidity	10/31/22 13:02	10/31/22 13:02			6.01	NTU			FA
Sulfide	10/31/22 13:02	10/31/22 13:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 13:04
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BC19905

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 13:04
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BC19905

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19910	Sodium, Dissolved	mg/L	0.000108	0.0660	5.00	63.9	62.6	5.00	4.25 to 5.75	142	70.0 to 130	2.06	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 13:04
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-7V

Laboratory ID Number: BC19905

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19907	Solids, Dissolved	mg/L	0.0000	25.0			327	50.0	40.0 to 60.0			0.610	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 10/31/22 14:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19906

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 10:30		1.015	0.186	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 10:30		1.015	23.9	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 12:39		101.5	70.1	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 10:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 10:30		1.015	13.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:30		1	14.6	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 10:30		1.015	6.82	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 10:30		1.015	36.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:35		1.015	0.168	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:35		1.015	21.4	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:19		101.5	71.8	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:35		1.015	13.5	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:35		1	14.4	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:35		1.015	6.71	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:35		1.015	38.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 11:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 11:43		1.015	0.00631	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 11:43		1.015	0.00136	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 11:43		1.015	0.277	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 11:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 11:43		1.015	0.000756	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 11:43		1.015	0.000614	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 11:43		1.015	0.669	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:43		1.015	0.000222	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 11:43		1.015	2.46	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 10/31/22 14:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19906

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 11:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	0.00122	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	0.268	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	0.000713	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	0.000535	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	0.654	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	0.000261	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	2.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:08		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:39		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 13:59	11/3/22 13:59		1	0.328	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	202	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	328	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	202	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 17:56	11/2/22 17:56		1	29.8	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8V

Location Code: WMWBARAP
Collected: 10/31/22 14:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19906

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:18	11/8/22 09:18		2	27.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 13:57	11/8/22 13:57		1	0.0963	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:49	11/10/22 08:49		1	10.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/31/22 13:57	10/31/22 13:57			544.59	uS/cm			FA
pH	10/31/22 13:57	10/31/22 13:57			6.23	SU			FA
Temperature	10/31/22 13:57	10/31/22 13:57			21.04	C			FA
Turbidity	10/31/22 13:57	10/31/22 13:57			5.02	NTU			FA
Sulfide	10/31/22 13:57	10/31/22 13:57			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BC19906

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BC19906

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19912	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	59.1	52.6	5.12	4.25 to 5.75	92.0	70.0 to 130	11.6	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-8V

Laboratory ID Number: BC19906

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19907	Solids, Dissolved	mg/L	0.0000	25.0			327	50.0	40.0 to 60.0			0.610	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 10/31/22 14:55
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19907

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 10:33		1.015	2.30	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 10:33		1.015	38.1	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 12:42		101.5	87.1	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 10:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 10:33		1.015	11.8	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:33		1	21.2	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 10:33		1.015	9.90	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 10:33		1.015	20.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:38		1.015	2.30	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:38		1.015	35.3	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:23		101.5	86.7	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:38		1.015	11.7	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:38		1	20.7	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:38		1.015	9.67	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:38		1.015	20.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 11:47		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 11:47		1.015	0.0230	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 11:47		1.015	0.111	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 11:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 11:47		1.015	0.000692	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 11:47		1.015	0.000698	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 16:04		5.075	2.10	mg/L	0.000761	0.005075	
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:47		1.015	0.000157	mg/L	0.000102	0.000203	J
* Potassium, Total	11/8/22 10:56	11/8/22 11:47		1.015	1.35	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 10/31/22 14:55
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19907

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 11:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	0.0252	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	0.122	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	0.000455	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	0.000652	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/8/22 10:51		5.075	2.10	mg/L	0.000761	0.005075	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	0.000201	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	1.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:43		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:01	11/3/22 14:01		1	0.373	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 12:00		1	171	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	329	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	171	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 18:13	11/2/22 18:13		1	28.7	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-9

Location Code: WMWBARAP
Collected: 10/31/22 14:55
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19907

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:19	11/8/22 09:19		2	25.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 13:58	11/8/22 13:58		1	0.0788	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:50	11/10/22 08:50		1	11.4	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	10/31/22 14:52	10/31/22 14:52			543.05	uS/cm			FA
pH	10/31/22 14:52	10/31/22 14:52			6.26	SU			FA
Temperature	10/31/22 14:52	10/31/22 14:52			21.48	C			FA
Turbidity	10/31/22 14:52	10/31/22 14:52			4.5	NTU			FA
Sulfide	10/31/22 14:52	10/31/22 14:52			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:55
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BC19907

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:55
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BC19907

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19912	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	59.1	52.6	5.12	4.25 to 5.75	92.0	70.0 to 130	11.6	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:55
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-9

Laboratory ID Number: BC19907

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19907	Solids, Dissolved	mg/L	0.0000	25.0			327	50.0	40.0 to 60.0			0.610	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-2

Location Code: WMWBARAPFB
Collected: 11/1/22 08:35
Customer ID:
Submittal Date: 11/2/22 09:53

Laboratory ID Number: BC19908

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 10:37		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/8/22 10:56	11/9/22 10:37		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	11/8/22 10:56	11/9/22 10:37		1.015	0.0121	mg/L	0.008120	0.0406	J	
* Lithium, Total	11/8/22 10:56	11/9/22 10:37		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/22 10:56	11/9/22 10:37		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:37		1	Not Detected	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 10:37		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	11/8/22 10:56	11/9/22 10:37		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	11/8/22 10:56	11/8/22 11:51		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:47		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: SC								
* Nitrogen, Nitrate/Nitrite	11/3/22 14:03	11/3/22 14:03		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-2

Location Code: WMWBARAPFB

Collected: 11/1/22 08:35

Customer ID:

Submittal Date: 11/2/22 09:53

Laboratory ID Number: BC19908

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 18:30	11/2/22 18:30		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500CI E		Analyst: CES							
* Chloride	11/8/22 09:07	11/8/22 09:07		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 13:59	11/8/22 13:59		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:53	11/10/22 08:53		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 11/1/22 08:35

Customer ID:

Delivery Date: 11/2/22 09:53

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BC19908

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 11/1/22 08:35
Customer ID:
Delivery Date: 11/2/22 09:53

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BC19908

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 11/1/22 08:35

Customer ID:

Delivery Date: 11/2/22 09:53

Description: Barry Ash Pond Field Blank-2

Laboratory ID Number: BC19908

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19907	Solids, Dissolved	mg/L	0.0000	25.0			327	50.0	40.0 to 60.0			0.610	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 11/1/22 08:48
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19909

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 10:40		1.015	1.00	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 12:45		101.5	69.9	mg/L	7.0035	40.6	
* Iron, Total	11/8/22 10:56	11/9/22 12:45		101.5	107	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 10:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 10:40		1.015	12.1	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:40		1	31.2	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 10:40		1.015	14.6	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 10:40		1.015	27.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:41		1.015	0.991	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 15:26		101.5	69.2	mg/L	7.0035	40.6	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:26		101.5	111	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:41		1.015	12.1	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:41		1	30.6	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:41		1.015	14.3	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:41		1.015	26.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 11:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 11:54		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 11:54		1.015	0.000299	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 11:54		1.015	0.199	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 11:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 11:54		1.015	0.000597	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 11:54		1.015	0.000667	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 11:54		1.015	0.843	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:54		1.015	0.000103	mg/L	0.000102	0.000203	J
* Potassium, Total	11/8/22 10:56	11/8/22 11:54		1.015	2.18	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 11/1/22 08:48
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19909

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 11:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	0.000322	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	0.199	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	0.000415	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	0.000538	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	0.807	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	2.05	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:15		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:51		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:04	11/3/22 14:04		1	0.366	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	264	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	452	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	264	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 18:45	11/2/22 18:45		1	23.1	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-10V

Location Code: WMWBARAP
Collected: 11/1/22 08:48
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19909

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:20	11/8/22 09:20		2	22.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:01	11/8/22 14:01		1	0.0602	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:52	11/10/22 08:52		1	11.4	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/1/22 08:45	11/1/22 08:45			691.49	uS/cm			FA
pH	11/1/22 08:45	11/1/22 08:45			6.41	SU			FA
Temperature	11/1/22 08:45	11/1/22 08:45			20.72	C			FA
Turbidity	11/1/22 08:45	11/1/22 08:45			0.3	NTU			FA
Sulfide	11/1/22 08:45	11/1/22 08:45			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 08:48
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BC19909

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 08:48
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BC19909

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19912	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	59.1	52.6	5.12	4.25 to 5.75	92.0	70.0 to 130	11.6	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 08:48

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-10V

Laboratory ID Number: BC19909

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 11/1/22 09:45
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19910

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 10:44		1.015	0.0727	mg/L	0.030000	0.1015	J	
* Calcium, Total	11/8/22 10:56	11/9/22 10:44		1.015	26.4	mg/L	0.070035	0.406		
* Iron, Total	11/8/22 10:56	11/9/22 12:49		101.5	72.1	mg/L	0.8120	4.06	RA	
* Lithium, Total	11/8/22 10:56	11/9/22 10:44		1.015	0.0182	mg/L	0.007105	0.01999956	J	
* Magnesium, Total	11/8/22 10:56	11/9/22 10:44		1.015	14.0	mg/L	0.021315	0.406		
Silica, Total (calc.)	11/8/22 10:56	11/9/22 10:44		1	16.7	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 10:44		1.015	7.80	mg/L	0.02030	0.25375		
* Sodium, Total	11/8/22 10:56	11/9/22 12:49		101.5	50.6	mg/L	3.045	40.6	RA	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:45		1.015	0.0510	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:45		1.015	25.0	mg/L	0.070035	0.406		
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:29		101.5	83.6	mg/L	0.8120	4.06		
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:45		1.015	0.0160	mg/L	0.007105	0.01999956	J	
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:45		1.015	13.7	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:45		1	16.0	mg/L				
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:45		1.015	7.49	mg/L	0.02030	0.25375		
* Sodium, Dissolved	12/6/22 14:32	12/7/22 13:13		10.15	56.8	mg/L	0.3045	4.06	RA	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 11:58		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 11:58		1.015	0.0399	mg/L	0.006090	0.01015		
* Arsenic, Total	11/8/22 10:56	11/8/22 11:58		1.015	0.0148	mg/L	0.000081	0.000203		
* Barium, Total	11/8/22 10:56	11/8/22 11:58		1.015	0.0780	mg/L	0.000508	0.001015		
* Beryllium, Total	11/8/22 10:56	11/8/22 11:58		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 11:58		1.015	0.00316	mg/L	0.000203	0.001015		
* Cobalt, Total	11/8/22 10:56	11/8/22 11:58		1.015	0.00105	mg/L	0.000068	0.000203		
* Lead, Total	11/8/22 10:56	11/8/22 11:58		1.015	0.0000777	mg/L	0.000068	0.000203	J	
* Manganese, Total	11/8/22 10:56	11/8/22 11:58		1.015	0.594	mg/L	0.000152	0.001015		
* Molybdenum, Total	11/8/22 10:56	11/8/22 11:58		1.015	0.000972	mg/L	0.000102	0.000203		
* Potassium, Total	11/8/22 10:56	11/8/22 11:58		1.015	6.01	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate/Nitrite precision is invalid due to sample concentration.

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 11/1/22 09:45
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19910

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 11:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 11:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	0.0152	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	0.0823	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	0.00274	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	0.000958	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	0.599	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	0.000888	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	5.93	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/4/22 23:55		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:06	11/3/22 14:06		1	0.425	mg/L as N	0.20	0.3	R
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	219	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	419	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	219	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 19:01	11/2/22 19:01		1	30.8	mg/L	1.00	2	R

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate/Nitrite precision is invalid due to sample concentration.

Certificate Of Analysis

Description: Barry Ash Pond - MW-11

Location Code: WMWBARAP
Collected: 11/1/22 09:45
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19910

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:22	11/8/22 09:22		4	22.7	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:02	11/8/22 14:02		1	0.0612	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 08:51	11/10/22 08:51		5	47.7	mg/L	3.0	10	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/1/22 09:41	11/1/22 09:41			630.87	uS/cm			FA
pH	11/1/22 09:41	11/1/22 09:41			6.28	SU			FA
Temperature	11/1/22 09:41	11/1/22 09:41			20.85	C			FA
Turbidity	11/1/22 09:41	11/1/22 09:41			4.51	NTU			FA
Sulfide	11/1/22 09:41	11/1/22 09:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate/Nitrite precision is invalid due to sample concentration.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 09:45
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BC19910

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19910	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.163	0.168	0.102	0.0850 to 0.115	123	70.0 to 130	3.02	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19910	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0967	0.0987	0.0919	0.0850 to 0.115	96.7	70.0 to 130	2.05	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19910	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.113	0.111	0.101	0.0850 to 0.115	98.2	70.0 to 130	1.79	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19910	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.173	0.175	0.0956	0.0850 to 0.115	95.0	70.0 to 130	1.15	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19910	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0942	0.0950	0.100	0.0850 to 0.115	94.2	70.0 to 130	0.846	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19910	Boron, Total	mg/L	0.00262	0.0650	1.00	1.07	1.08	0.996	0.850 to 1.15	99.7	70.0 to 130	0.930	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19910	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0959	0.0985	0.0992	0.0850 to 0.115	95.9	70.0 to 130	2.67	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19910	Calcium, Total	mg/L	-0.00945	0.152	5.00	31.5	31.3	5.18	4.25 to 5.75	102	70.0 to 130	0.637	20.0
BC19910	Chloride	mg/L	0.00906	1.00	40.0	63.7	64.8	9.98	9.00 to 11.0	102	80.0 to 120	1.71	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19910	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.101	0.101	0.0996	0.0850 to 0.115	97.8	70.0 to 130	0.00	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19910	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.104	0.107	0.102	0.0850 to 0.115	103	70.0 to 130	2.84	20.0
BC19910	Fluoride	mg/L	0.0218	0.125	2.50	2.66	2.66	2.52	2.25 to 2.75	104	80.0 to 120	0.00	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19910	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	71.6	84.4	0.204	0.170 to 0.230	-250	70.0 to 130	16.4	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate/Nitrite precision is invalid due to sample concentration.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 09:45

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BC19910

Sample	Analysis	Units	MB					Standard		Rec			Prec Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19910	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.107	0.109	0.106	0.0850 to 0.115	107	70.0 to 130	1.85	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19910	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.236	0.238	0.197	0.170 to 0.230	109	70.0 to 130	0.844	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19910	Magnesium, Total	mg/L	0.000491	0.0462	5.00	18.9	18.8	5.04	4.25 to 5.75	98.0	70.0 to 130	0.531	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19910	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.709	0.703	0.104	0.0850 to 0.115	115	70.0 to 130	0.850	20.0
BC19910	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00411	0.00413	0.00413	0.00340 to 0.00460	103	70.0 to 130	0.485	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19910	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0968	0.0979	0.0963	0.0850 to 0.115	95.8	70.0 to 130	1.13	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19910	Potassium, Total	mg/L	0.0365	0.367	10.0	16.1	16.1	10.2	8.50 to 11.5	101	70.0 to 130	0.00	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19910	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0988	0.0992	0.105	0.0850 to 0.115	98.8	70.0 to 130	0.404	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19910	Silicon, Total	mg/L	-0.00128	0.0440	1.00	8.85	8.84	1.01	0.850 to 1.15	105	70.0 to 130	0.113	20.0
BC19910	Sodium, Dissolved	mg/L	0.000108	0.0660	5.00	63.9	62.6	5.00	4.25 to 5.75	142	70.0 to 130	2.06	20.0
BC19910	Sodium, Total	mg/L	0.000326	0.0660	5.00	54.9	64.1	5.00	4.25 to 5.75	86.0	70.0 to 130	15.5	20.0
BC19908	Sulfate	mg/L	0.113	2.0	20.0	21.2	21.1	19.8	18.0 to 22.0	106	80.0 to 120	0.473	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19910	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.106	0.106	0.105	0.0850 to 0.115	106	70.0 to 130	0.00	20.0
BC19910	Total Organic Carbon	mg/L	0.329	1.00	10.0	40.7	38.2	9.93		99.0	80.0 to 120	6.34	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate/Nitrite precision is invalid due to sample concentration.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 09:45
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-11

Laboratory ID Number: BC19910

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19910	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	1.93	0.353	2.09	1.80 to 2.20	75.2	90.0 to 110	18.5	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Nitrate/Nitrite precision is invalid due to sample concentration.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 11/1/22 10:27
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19911

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:00		1.015	0.0922	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:00		1.015	20.7	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 12:59		101.5	95.2	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:00		1.015	14.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:00		1	14.6	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:00		1.015	6.84	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 12:59		101.5	49.7	mg/L	3.045	40.6	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:48		1.015	0.0701	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:48		1.015	18.7	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:32		101.5	83.4	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:48		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:48		1.015	14.1	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:48		1	14.2	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:48		1.015	6.64	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 16:00		10.15	56.2	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:20		1.015	0.00682	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 12:20		1.015	0.0241	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 12:20		1.015	0.101	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 12:20		1.015	0.00100	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 12:20		1.015	0.00239	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 12:20		1.015	1.23	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:20		1.015	0.00112	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 12:20		1.015	2.62	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 11/1/22 10:27
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19911

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	0.0240	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	0.105	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	0.000827	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	0.00216	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	1.18	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	0.00101	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	2.44	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:14		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:15	11/3/22 14:15		1	0.390	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	194	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	365	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	194	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 20:15	11/2/22 20:15		1	22.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12V

Location Code: WMWBARAP
Collected: 11/1/22 10:27
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19911

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:52	11/8/22 09:52		2	26.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:14	11/8/22 14:14		1	0.130	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:06	11/10/22 09:06		1	12.3	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/1/22 10:25	11/1/22 10:25			571.72	uS/cm			FA
pH	11/1/22 10:25	11/1/22 10:25			6.32	SU			FA
Temperature	11/1/22 10:25	11/1/22 10:25			21.07	C			FA
Turbidity	11/1/22 10:25	11/1/22 10:25			0.43	NTU			FA
Sulfide	11/1/22 10:25	11/1/22 10:25			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 10:27
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BC19911

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0	
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0	
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0	
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0	
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0	
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0	
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0	
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0	
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0	
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0	
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0	
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0	
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0	
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0	
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0	
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0	
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0	
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0	
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0	
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0	
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0	
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0	
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0	
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 10:27
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BC19911

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19912	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	59.1	52.6	5.12	4.25 to 5.75	92.0	70.0 to 130	11.6	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 10:27

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12V

Laboratory ID Number: BC19911

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 11/1/22 11:20
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19912

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:04		1.015	0.0777	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:04		1.015	22.5	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:02		101.5	72.8	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:04		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:04		1.015	16.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:04		1	16.7	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:04		1.015	7.79	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 13:02		101.5	45.5	mg/L	3.045	40.6	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:51		1.015	0.0573	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:51		1.015	21.1	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:35		101.5	77.5	mg/L	0.8120	4.06	RA
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:51		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:51		1.015	16.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:51		1	16.1	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:51		1.015	7.51	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 16:04		10.15	54.5	mg/L	0.3045	4.06	RA
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:23		1.015	0.0264	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 12:23		1.015	0.0226	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 12:23		1.015	0.0790	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 12:23		1.015	0.00338	mg/L	0.000203	0.001015	
* Cobalt, Total	11/8/22 10:56	11/8/22 12:23		1.015	0.00406	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 12:23		1.015	0.780	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:23		1.015	0.000942	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 12:23		1.015	2.89	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 11/1/22 11:20
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19912

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	0.0220	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	0.0802	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	0.00280	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	0.00369	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	0.739	mg/L	0.000152	0.001015	RA
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	0.000994	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	2.64	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:26		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:18		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:17	11/3/22 14:17		1	0.353	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	200	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	363	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	200	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 20:30	11/2/22 20:30		1	23.0	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12

Location Code: WMWBARAP
Collected: 11/1/22 11:20
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19912

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:53	11/8/22 09:53		2	24.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:16	11/8/22 14:16		1	0.0695	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:07	11/10/22 09:07		1	15.3	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/1/22 11:17	11/1/22 11:17			536.42	uS/cm			FA
pH	11/1/22 11:17	11/1/22 11:17			6.21	SU			FA
Temperature	11/1/22 11:17	11/1/22 11:17			20.96	C			FA
Turbidity	11/1/22 11:17	11/1/22 11:17			0.44	NTU			FA
Sulfide	11/1/22 11:17	11/1/22 11:17			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 11:20
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BC19912

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19912	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.102	0.0954	0.0952	0.0850 to 0.115	102	70.0 to 130	6.69	20.0
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0
BC19912	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.100	0.0923	0.0893	0.0850 to 0.115	100	70.0 to 130	8.01	20.0
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0
BC19912	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.127	0.116	0.0992	0.0850 to 0.115	105	70.0 to 130	9.05	20.0
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0
BC19912	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.186	0.170	0.0970	0.0850 to 0.115	106	70.0 to 130	8.99	20.0
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0
BC19912	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0978	0.0945	0.100	0.0850 to 0.115	97.8	70.0 to 130	3.43	20.0
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0
BC19912	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	101	70.0 to 130	0.00	20.0
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC19912	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.104	0.0959	0.0967	0.0850 to 0.115	104	70.0 to 130	8.10	20.0
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0
BC19912	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	24.8	24.9	4.73	4.25 to 5.75	74.0	70.0 to 130	0.402	20.0
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0
BC19912	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.106	0.0975	0.0967	0.0850 to 0.115	103	70.0 to 130	8.35	20.0
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0
BC19912	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.111	0.103	0.0984	0.0850 to 0.115	107	70.0 to 130	7.48	20.0
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0
BC19912	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	66.8	67.1	0.199	0.170 to 0.230	-5350	70.0 to 130	0.448	20.0
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 11:20

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BC19912

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BC19912	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.100	0.0964	0.0949	0.0850 to 0.115	100	70.0 to 130	3.67	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19912	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.215	0.215	0.210	0.170 to 0.230	108	70.0 to 130	0.00	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19912	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	21.1	21.0	5.14	4.25 to 5.75	98.0	70.0 to 130	0.475	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19912	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.881	0.827	0.100	0.0850 to 0.115	142	70.0 to 130	6.32	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19912	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.100	0.0936	0.0961	0.0850 to 0.115	99.0	70.0 to 130	6.61	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19912	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	13.0	11.9	9.94	8.50 to 11.5	104	70.0 to 130	8.84	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19912	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.107	0.100	0.103	0.0850 to 0.115	107	70.0 to 130	6.76	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19912	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	8.48	8.48	0.968	0.850 to 1.15	97.0	70.0 to 130	0.00	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19912	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	59.1	52.6	5.12	4.25 to 5.75	92.0	70.0 to 130	11.6	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19912	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0987	0.0957	0.0944	0.0850 to 0.115	98.7	70.0 to 130	3.09	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 11:20
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12

Laboratory ID Number: BC19912

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12 Dup

Location Code: WMWBARAP
Collected: 11/1/22 11:20
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19913

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:07		1.015	0.0778	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:07		1.015	22.6	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:06		101.5	66.9	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:07		1.015	16.4	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:07		1	16.8	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:07		1.015	7.84	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 13:06		101.5	42.1	mg/L	3.045	40.6	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:07		1.015	0.0572	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:07		1.015	21.1	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 16:19		101.5	73.0	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:07		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:07		1.015	16.1	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:07		1	16.0	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:07		1.015	7.50	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 16:48		10.15	49.8	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 12:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:27		1.015	0.0289	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 12:27		1.015	0.0225	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 12:27		1.015	0.0781	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:27		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 12:27		1.015	0.00330	mg/L	0.000203	0.001015	
* Cobalt, Total	11/8/22 10:56	11/8/22 12:27		1.015	0.00396	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 12:27		1.015	0.772	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:27		1.015	0.000961	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 12:27		1.015	2.84	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12 Dup

Location Code: WMWBARAP
Collected: 11/1/22 11:20
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19913

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:27		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:27		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	0.0222	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	0.0783	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	0.00291	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	0.00380	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	0.733	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	0.000936	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	2.70	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:22		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:19	11/3/22 14:19		1	0.350	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	196	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	359	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	196	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 20:45	11/2/22 20:45		1	23.0	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-12 Dup

Location Code: WMWBARAP
Collected: 11/1/22 11:20
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19913

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:54	11/8/22 09:54		2	24.9	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:17	11/8/22 14:17		1	0.0694	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:08	11/10/22 09:08		1	18.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/1/22 11:17	11/1/22 11:17			536.42	uS/cm			FA
pH	11/1/22 11:17	11/1/22 11:17			6.21	SU			FA
Temperature	11/1/22 11:17	11/1/22 11:17			20.96	C			FA
Turbidity	11/1/22 11:17	11/1/22 11:17			0.44	NTU			FA
Sulfide	11/1/22 11:17	11/1/22 11:17			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 11:20
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12 Dup

Laboratory ID Number: BC19913

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0	
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0	
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0	
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0	
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0	
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0	
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0	
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0	
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0	
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0	
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0	
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0	
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0	
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0	
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0	
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0	
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0	
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0	
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0	
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0	
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0	
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0	
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0	
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 11:20

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12 Dup

Laboratory ID Number: BC19913

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 11:20
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-12 Dup

Laboratory ID Number: BC19913

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 10/31/22 12:40
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19914

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:11		1.015	0.198	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 13:37		10.15	58.5	mg/L	0.70035	4.06	
* Iron, Total	11/8/22 10:56	11/9/22 11:11		1.015	0.631	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/22 10:56	11/9/22 11:11		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:11		1.015	40.6	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:11		1	12.3	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:11		1.015	5.76	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/10/22 12:50		101.5	471	mg/L	3.045	40.6	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:10		1.015	0.195	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 16:51		10.15	62.5	mg/L	0.70035	4.06	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:10		1.015	0.537	mg/L	0.008120	0.0406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 16:51		10.15	46.1	mg/L	0.21315	4.06	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:10		1	11.5	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:10		1.015	5.38	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 16:23		101.5	508	mg/L	3.045	40.6	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 12:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:30		1.015	0.0298	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 12:30		1.015	0.00144	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 12:30		1.015	0.804	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 12:30		1.015	0.000316	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 12:30		1.015	0.0967	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 12:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 16:08		5.075	3.53	mg/L	0.000761	0.005075	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:30		1.015	0.000535	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 12:30		1.015	7.97	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 10/31/22 12:40
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19914

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:30		1.015	0.000166	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	0.00135	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	0.781	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	0.0924	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/8/22 10:55		5.075	3.24	mg/L	0.000761	0.005075	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	0.000691	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	7.41	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:51		1.015	0.000158	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:26		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:21	11/3/22 14:21		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	109	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	1720	mg/L		147.1	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	109	mg CaCO3/L		1	A
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 21:01	11/2/22 21:01		1	4.70	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17V

Location Code: WMWBARAP
Collected: 10/31/22 12:40
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19914

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:08	11/8/22 10:08		80	914	mg/L	40.00	80	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:18	11/8/22 14:18		1	0.118	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:20	11/10/22 09:20		2	55.8	mg/L	1.2	4	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/31/22 12:38	10/31/22 12:38			3166.40	uS/cm			FA
pH	10/31/22 12:38	10/31/22 12:38			6.40	SU			FA
Temperature	10/31/22 12:38	10/31/22 12:38			21.81	C			FA
Turbidity	10/31/22 12:38	10/31/22 12:38			1.61	NTU			FA
Sulfide	10/31/22 12:38	10/31/22 12:38			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:40
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BC19914

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:40
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BC19914

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:40
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-17V

Laboratory ID Number: BC19914

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 10/31/22 14:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19915

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:14		1.015	0.0640	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:14		1.015	11.2	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:09		101.5	69.1	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:14		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:14		1.015	4.91	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:14		1	16.2	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:14		1.015	7.57	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:14		1.015	17.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:13		1.015	0.0479	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:13		1.015	10.1	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 16:26		101.5	79.6	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:13		1.015	4.87	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:13		1	15.6	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:13		1.015	7.29	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:13		1.015	18.0	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 12:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:34		1.015	0.0434	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 12:34		1.015	0.0281	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 12:34		1.015	0.116	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 12:34		1.015	0.000446	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 12:34		1.015	0.00156	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 12:34		1.015	0.317	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:34		1.015	0.000432	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 12:34		1.015	1.42	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 10/31/22 14:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19915

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	0.0282	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	0.113	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	0.00138	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	0.307	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	0.000401	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	1.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:55		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:30		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:23	11/3/22 14:23		1	0.348	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	113	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	206	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	113	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 21:15	11/2/22 21:15		1	12.6	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-17H

Location Code: WMWBARAP
Collected: 10/31/22 14:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19915

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:41	11/8/22 09:41		1	17.1	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:19	11/8/22 14:19		1	0.135	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:11	11/10/22 09:11		1	13.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/31/22 13:57	10/31/22 13:57			391.94	uS/cm			FA
pH	10/31/22 13:57	10/31/22 13:57			6.34	SU			FA
Temperature	10/31/22 13:57	10/31/22 13:57			21.57	C			FA
Turbidity	10/31/22 13:57	10/31/22 13:57			9.51	NTU			FA
Sulfide	10/31/22 13:57	10/31/22 13:57			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BC19915

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BC19915

Sample	Analysis	Units	MB				Standard			Rec		Prec	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-17H

Laboratory ID Number: BC19915

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5V

Location Code: WMWBARAP
Collected: 10/31/22 15:10
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19916

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	11/8/22 10:56	11/9/22 11:17		1.015	0.0652	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:17		1.015	2.16	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 11:17		1.015	1.44	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/22 10:56	11/9/22 11:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:17		1.015	1.53	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:17		1	13.5	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:17		1.015	6.29	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:17		1.015	34.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:16		1.015	0.0625	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:16		1.015	1.98	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:16		1.015	0.0457	mg/L	0.008120	0.0406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:16		1.015	1.54	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:16		1	12.9	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:16		1.015	6.01	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:16		1.015	36.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	11/8/22 10:56	11/8/22 12:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:38		1.015	0.00779	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 12:38		1.015	0.000618	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 12:38		1.015	0.0514	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:38		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 12:38		1.015	0.00100	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 12:38		1.015	0.0000947	mg/L	0.000068	0.000203	J
* Lead, Total	11/8/22 10:56	11/8/22 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 12:38		1.015	0.00377	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:38		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 12:38		1.015	1.57	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5V

Location Code: WMWBARAP
Collected: 10/31/22 15:10
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19916

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:38		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:38		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	0.0504	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	0.000599	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	0.0000716	mg/L	0.000068	0.000203	J
* Lead, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	0.00338	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	1.49	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 13:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:34		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:25	11/3/22 14:25		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 12:00		1	35.0	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	115	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	35.0	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 21:30	11/2/22 21:30		1	2.71	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5V

Location Code: WMWBARAP
Collected: 10/31/22 15:10
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19916

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:55	11/8/22 09:55		2	35.3	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:20	11/8/22 14:20		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:12	11/10/22 09:12		1	7.44	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/31/22 15:08	10/31/22 15:08			202.71	uS/cm			FA
pH	10/31/22 15:08	10/31/22 15:08			5.90	SU			FA
Temperature	10/31/22 15:08	10/31/22 15:08			21.74	C			FA
Turbidity	10/31/22 15:08	10/31/22 15:08			4.39	NTU			FA
Sulfide	10/31/22 15:08	10/31/22 15:08			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 15:10
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BC19916

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 15:10
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BC19916

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 15:10
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5V

Laboratory ID Number: BC19916

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5

Location Code: WMWBARAP
Collected: 10/31/22 16:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19917

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:21		1.015	0.0515	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:21		1.015	10.1	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:12		101.5	49.9	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:21		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:21		1.015	3.41	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:21		1	25.9	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:21		1.015	12.1	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:21		1.015	15.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:19		1.015	0.0369	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:19		1.015	9.01	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 16:29		101.5	51.7	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:19		1.015	3.43	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:19		1	25.0	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:19		1.015	11.7	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:19		1.015	16.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:41		1.015	0.00629	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 12:41		1.015	0.0292	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 12:41		1.015	0.105	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 12:41		1.015	0.000960	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 12:41		1.015	0.00150	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 12:41		1.015	0.435	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:41		1.015	0.000344	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 12:41		1.015	1.33	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5

Location Code: WMWBARAP
Collected: 10/31/22 16:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19917

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	0.0283	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	0.0994	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	0.000818	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	0.00146	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	0.426	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	0.000369	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	1.29	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:38		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:27	11/3/22 14:27		1	0.325	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 12:00		1	93.2	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	194	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	93.2	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 21:45	11/2/22 21:45		1	16.3	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5

Location Code: WMWBARAP
Collected: 10/31/22 16:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19917

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:43	11/8/22 09:43		1	17.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:22	11/8/22 14:22		1	0.0614	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:13	11/10/22 09:13		1	15.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/31/22 15:55	10/31/22 15:55			310.26	uS/cm			FA
pH	10/31/22 15:55	10/31/22 15:55			5.99	SU			FA
Temperature	10/31/22 15:55	10/31/22 15:55			21.99	C			FA
Turbidity	10/31/22 15:55	10/31/22 15:55			0.58	NTU			FA
Sulfide	10/31/22 15:55	10/31/22 15:55			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BC19917

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BC19917

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5

Laboratory ID Number: BC19917

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5 Dup

Location Code: WMWBARAP
Collected: 10/31/22 16:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19918

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 11:24		1.015	0.0498	mg/L	0.030000	0.1015	J	
* Calcium, Total	11/8/22 10:56	11/9/22 11:24		1.015	10.1	mg/L	0.070035	0.406		
* Iron, Total	11/8/22 10:56	11/9/22 13:23		101.5	50.6	mg/L	0.8120	4.06		
* Lithium, Total	11/8/22 10:56	11/9/22 11:24		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/22 10:56	11/9/22 11:24		1.015	3.41	mg/L	0.021315	0.406		
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:24		1	26.1	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 11:24		1.015	12.2	mg/L	0.02030	0.25375		
* Sodium, Total	11/8/22 10:56	11/9/22 11:24		1.015	15.4	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:23		1.015	0.0375	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:23		1.015	9.18	mg/L	0.070035	0.406		
* Iron, Dissolved	11/4/22 10:13	11/8/22 16:32		101.5	55.9	mg/L	0.8120	4.06		
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:23		1.015	3.47	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:23		1	25.3	mg/L				
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:23		1.015	11.8	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:23		1.015	16.0	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 12:45		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 12:45		1.015	0.00721	mg/L	0.006090	0.01015	J	
* Arsenic, Total	11/8/22 10:56	11/8/22 12:45		1.015	0.0293	mg/L	0.000081	0.000203		
* Barium, Total	11/8/22 10:56	11/8/22 12:45		1.015	0.102	mg/L	0.000508	0.001015		
* Beryllium, Total	11/8/22 10:56	11/8/22 12:45		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 12:45		1.015	0.000986	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/8/22 10:56	11/8/22 12:45		1.015	0.00144	mg/L	0.000068	0.000203		
* Lead, Total	11/8/22 10:56	11/8/22 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/8/22 10:56	11/8/22 12:45		1.015	0.428	mg/L	0.000152	0.001015		
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:45		1.015	0.000301	mg/L	0.000102	0.000203		
* Potassium, Total	11/8/22 10:56	11/8/22 12:45		1.015	1.31	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5 Dup

Location Code: WMWBARAP
Collected: 10/31/22 16:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19918

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	0.0285	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	0.101	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	0.000894	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	0.00138	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	0.416	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	0.000295	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	1.24	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:06		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:42		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:28	11/3/22 14:28		1	0.298	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 12:00		1	86.2	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/2/22 13:10	11/3/22 14:10		1	193	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	86.2	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 21:59	11/2/22 21:59		1	17.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-5 Dup

Location Code: WMWBARAP
Collected: 10/31/22 16:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19918

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:45	11/8/22 09:45		1	17.5	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:23	11/8/22 14:23		1	0.0619	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:14	11/10/22 09:14		1	13.8	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/31/22 15:55	10/31/22 15:55			310.26	uS/cm			FA
pH	10/31/22 15:55	10/31/22 15:55			5.99	SU			FA
Temperature	10/31/22 15:55	10/31/22 15:55			21.99	C			FA
Turbidity	10/31/22 15:55	10/31/22 15:55			0.58	NTU			FA
Sulfide	10/31/22 15:55	10/31/22 15:55			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5 Dup

Laboratory ID Number: BC19918

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5 Dup

Laboratory ID Number: BC19918

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-5 Dup

Laboratory ID Number: BC19918

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19918	Solids, Dissolved	mg/L	0.0000	25.0			191	50.0	40.0 to 60.0			1.04	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 10/31/22 17:10
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19919

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/22 10:56	11/9/22 11:27		1.015	3.38	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 11:27		1.015	0.0272	mg/L	0.008120	0.0406	J
* Lithium, Total	11/8/22 10:56	11/9/22 11:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:27		1.015	2.79	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:27		1	14.8	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:27		1.015	6.91	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:27		1.015	11.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:26		1.015	3.15	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:26		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:26		1.015	2.78	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:26		1	14.3	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:26		1.015	6.67	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:26		1.015	11.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 12:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.0352	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.0000989	mg/L	0.000081	0.000203	J
* Barium, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.118	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.000451	mg/L	0.000406	0.001015	J
* Cadmium, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.000102	mg/L	0.000068	0.000203	J
* Chromium, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.000570	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.00319	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.000144	mg/L	0.000068	0.000203	J
* Manganese, Total	11/8/22 10:56	11/8/22 12:48		1.015	0.0220	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:48		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 12:48		1.015	1.95	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 10/31/22 17:10
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19919

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	0.0270	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	0.114	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	0.000440	mg/L	0.000406	0.001015	J
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	0.000166	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	0.000285	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	0.00307	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	0.000118	mg/L	0.000068	0.000203	J
* Manganese, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	0.0213	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	1.84	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:46		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:30	11/3/22 14:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 12:00		1	3.12	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	71.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	3.12	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 22:14	11/2/22 22:14		1	2.30	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-4

Location Code: WMWBARAP
Collected: 10/31/22 17:10
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19919

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:58	11/8/22 09:58		2	32.8	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:24	11/8/22 14:24		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:15	11/10/22 09:15		1	1.02	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	10/31/22 17:06	10/31/22 17:06			120.44	uS/cm			FA
pH	10/31/22 17:06	10/31/22 17:06			4.65	SU			FA
Temperature	10/31/22 17:06	10/31/22 17:06			21.57	C			FA
Turbidity	10/31/22 17:06	10/31/22 17:06			0.55	NTU			FA
Sulfide	10/31/22 17:06	10/31/22 17:06			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 17:10
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BC19919

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 17:10
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BC19919

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 17:10
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-4

Laboratory ID Number: BC19919

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 11/1/22 07:48
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19920

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/22 10:56	11/9/22 11:31		1.015	0.926	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 11:31		1.015	0.0914	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/22 10:56	11/9/22 11:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:31		1.015	0.642	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:31		1	14.9	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:31		1.015	6.96	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:31		1.015	5.13	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:29		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:29		1.015	0.854	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:29		1.015	0.0537	mg/L	0.008120	0.0406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:29		1.015	0.653	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:29		1	14.3	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:29		1.015	6.68	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:29		1.015	5.34	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 12:52		1.015	0.0373	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 12:52		1.015	0.000102	mg/L	0.000081	0.000203	J
* Barium, Total	11/8/22 10:56	11/8/22 12:52		1.015	0.0289	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 12:52		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 12:52		1.015	0.00107	mg/L	0.000203	0.001015	
* Cobalt, Total	11/8/22 10:56	11/8/22 12:52		1.015	0.000152	mg/L	0.000068	0.000203	J
* Lead, Total	11/8/22 10:56	11/8/22 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 12:52		1.015	0.00792	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 12:52		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 12:52		1.015	0.945	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 11/1/22 07:48
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19920

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 12:52		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 12:52		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	0.0287	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	0.000619	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	0.000143	mg/L	0.000068	0.000203	J
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	0.00724	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	0.890	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:13		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 00:50		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:32	11/3/22 14:32		1	0.286	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	4.42	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	40.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	4.42	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 22:29	11/2/22 22:29		1	1.96	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-3

Location Code: WMWBARAP
Collected: 11/1/22 07:48
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19920

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 09:47	11/8/22 09:47		1	8.88	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:25	11/8/22 14:25		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:17	11/10/22 09:17		1	1.66	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/1/22 07:45	11/1/22 07:45			42.37	uS/cm			FA
pH	11/1/22 07:45	11/1/22 07:45			5.01	SU			FA
Temperature	11/1/22 07:45	11/1/22 07:45			20.88	C			FA
Turbidity	11/1/22 07:45	11/1/22 07:45			1.17	NTU			FA
Sulfide	11/1/22 07:45	11/1/22 07:45			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 07:48

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BC19920

Sample	Analysis	Units	MB	MB		MS	MSD	Standard		Rec		Prec	Limit
				Limit	Spike			Standard	Limit	Rec	Limit		
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19920	Aluminum, Total	mg/L	0.000850	0.010	0.100	0.128	0.132	0.102	0.0850 to 0.115	90.7	70.0 to 130	3.08	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19920	Antimony, Total	mg/L	0.000382	0.00100	0.100	0.0929	0.0975	0.0919	0.0850 to 0.115	92.9	70.0 to 130	4.83	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19920	Arsenic, Total	mg/L	0.0000087	0.000176	0.100	0.0943	0.0990	0.101	0.0850 to 0.115	94.2	70.0 to 130	4.86	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19920	Barium, Total	mg/L	-0.0000002	0.00100	0.100	0.122	0.126	0.0956	0.0850 to 0.115	93.1	70.0 to 130	3.23	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19920	Beryllium, Total	mg/L	0.0000062	0.000880	0.100	0.0904	0.0861	0.100	0.0850 to 0.115	90.4	70.0 to 130	4.87	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19920	Boron, Total	mg/L	0.00262	0.0650	1.00	1.02	1.03	0.996	0.850 to 1.15	102	70.0 to 130	0.976	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19920	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0982	0.102	0.0992	0.0850 to 0.115	98.2	70.0 to 130	3.80	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19920	Calcium, Total	mg/L	-0.00945	0.152	5.00	6.08	6.12	5.18	4.25 to 5.75	103	70.0 to 130	0.656	20.0
BC19920	Chloride	mg/L	0.000623	1.00	10.0	18.1	18.1	9.86	9.00 to 11.0	92.2	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19920	Chromium, Total	mg/L	0.0000474	0.000440	0.100	0.0974	0.103	0.0996	0.0850 to 0.115	96.3	70.0 to 130	5.59	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19920	Cobalt, Total	mg/L	0.0000058	0.000147	0.100	0.101	0.107	0.102	0.0850 to 0.115	101	70.0 to 130	5.77	20.0
BC19920	Fluoride	mg/L	0.0625	0.125	2.50	2.30	2.39	2.49	2.25 to 2.75	92.0	80.0 to 120	3.84	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19920	Iron, Total	mg/L	-6.560E-05	0.0176	0.2	0.293	0.296	0.204	0.170 to 0.230	101	70.0 to 130	1.02	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 07:48

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BC19920

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19920	Lead, Total	mg/L	0.0000066	0.000147	0.100	0.102	0.0979	0.106	0.0850 to 0.115	102	70.0 to 130	4.10	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19920	Lithium, Total	mg/L	5.280E-05	0.0154	0.200	0.201	0.203	0.197	0.170 to 0.230	100	70.0 to 130	0.990	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19920	Magnesium, Total	mg/L	0.000491	0.0462	5.00	5.65	5.76	5.04	4.25 to 5.75	100	70.0 to 130	1.93	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19920	Manganese, Total	mg/L	0.0000269	0.00033	0.100	0.108	0.115	0.104	0.0850 to 0.115	100	70.0 to 130	6.28	20.0
BC19920	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.0039	0.00391	0.00413	0.00340 to 0.00460	97.5	70.0 to 130	0.256	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19920	Molybdenum, Total	mg/L	0.0000527	0.0002	0.100	0.0952	0.101	0.0963	0.0850 to 0.115	95.2	70.0 to 130	5.91	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19920	Potassium, Total	mg/L	0.0365	0.367	10.0	10.6	11.1	10.2	8.50 to 11.5	96.6	70.0 to 130	4.61	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19920	Selenium, Total	mg/L	0.0000485	0.00100	0.100	0.0969	0.103	0.105	0.0850 to 0.115	96.9	70.0 to 130	6.10	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19920	Silicon, Total	mg/L	-0.00128	0.0440	1.00	7.96	7.98	1.01	0.850 to 1.15	100	70.0 to 130	0.251	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19920	Sodium, Total	mg/L	0.000326	0.0660	5.00	10.4	10.5	5.00	4.25 to 5.75	105	70.0 to 130	0.957	20.0
BC19920	Sulfate	mg/L	0.120	2.0	20.0	21.9	22.3	20.1	18.0 to 22.0	101	80.0 to 120	1.81	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19920	Thallium, Total	mg/L	0.0000097	0.000147	0.100	0.101	0.0981	0.105	0.0850 to 0.115	101	70.0 to 130	2.91	20.0
BC19920	Total Organic Carbon	mg/L	0.279	1.00	10.0	11.6	10.6	9.72		96.4	80.0 to 120	9.01	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 07:48
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-3

Laboratory ID Number: BC19920

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19920	Nitrogen, Nitrate/Nitrite	mg/L as N	0.08	0.200	2.00	2.15	0.262	2.04	1.80 to 2.20	93.2	90.0 to 110	8.76	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 11/1/22 09:05
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19921

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:22		1.015	2.24	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 11:22		1.015	11.1	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:55		101.5	152	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:22		1.015	6.51	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:22		1	25.3	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:22		1.015	11.8	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:22		1.015	25.8	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:32		1.015	2.23	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:32		1.015	10.2	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 16:35		101.5	129	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:32		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:32		1.015	6.50	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:32		1	25.0	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:32		1.015	11.7	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:32		1.015	26.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 13:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 13:21		1.015	0.0119	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 13:21		1.015	0.0161	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 13:21		1.015	0.0905	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:21		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 13:21		1.015	0.00122	mg/L	0.000203	0.001015	
* Cobalt, Total	11/8/22 10:56	11/8/22 13:21		1.015	0.00812	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 13:21		1.015	0.594	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:21		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 13:21		1.015	2.24	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP
Collected: 11/1/22 09:05
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19921

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	0.0158	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	0.0865	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	0.000918	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	0.00771	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	0.575	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	2.07	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:41	11/3/22 14:41		1	0.409	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	194	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	330	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	194	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/2/22 23:52	11/2/22 23:52		1	31.1	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16

Location Code: WMWBARAP

Collected: 11/1/22 09:05

Customer ID:

Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19921

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:34	11/8/22 10:34		2	23.5	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:37	11/8/22 14:37		1	0.112	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:29	11/10/22 09:29		1	7.46	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/1/22 09:02	11/1/22 09:02			595.22	uS/cm			FA
pH	11/1/22 09:02	11/1/22 09:02			5.78	SU			FA
Temperature	11/1/22 09:02	11/1/22 09:02			21.51	C			FA
Turbidity	11/1/22 09:02	11/1/22 09:02			0.35	NTU			FA
Sulfide	11/1/22 09:02	11/1/22 09:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 09:05
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BC19921

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 09:05

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BC19921

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 09:05
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-16

Laboratory ID Number: BC19921

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 11/1/22 09:52
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19922

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:25		1.015	0.0712	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:25		1.015	6.57	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:59		101.5	133	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:25		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:25		1.015	5.18	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:25		1	13.1	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:25		1.015	6.12	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 13:59		101.5	52.1	mg/L	3.045	40.6	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:35		1.015	0.0706	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:35		1.015	6.33	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 16:38		101.5	106	mg/L	0.8120	4.06	RA
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:35		1.015	5.27	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:35		1	13.2	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:35		1.015	6.15	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 16:54		10.15	44.5	mg/L	0.3045	4.06	RA
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 13:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 13:25		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 13:25		1.015	0.0177	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 13:25		1.015	0.0745	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 13:25		1.015	0.000361	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 13:25		1.015	0.0357	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 13:25		1.015	0.694	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:25		1.015	0.00173	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 13:25		1.015	2.88	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 11/1/22 09:52
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19922

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	0.0188	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	0.0774	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	0.0353	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	0.698	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	0.00167	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	2.64	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:20		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:43	11/3/22 14:43		1	0.392	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	50.7	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	278	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	50.7	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 00:08	11/3/22 00:08		1	9.66	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15

Location Code: WMWBARAP
Collected: 11/1/22 09:52
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19922

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:35	11/8/22 10:35		16	99.1	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:38	11/8/22 14:38		1	0.177	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:30	11/10/22 09:30		1	4.24	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/1/22 09:49	11/1/22 09:49			629.63	uS/cm			FA
pH	11/1/22 09:49	11/1/22 09:49			6.64	SU			FA
Temperature	11/1/22 09:49	11/1/22 09:49			21.53	C			FA
Turbidity	11/1/22 09:49	11/1/22 09:49			1.37	NTU			FA
Sulfide	11/1/22 09:49	11/1/22 09:49			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 09:52

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BC19922

Sample	Analysis	Units	MB	MB		MS	MSD	Standard	Standard Limit	Rec		Prec Limit	
				Limit	Spike					Rec	Limit		
BC19922	Aluminum, Dissolved	mg/L	-0.000340	0.010	0.100	0.0876	0.0934	0.0952	0.0850 to 0.115	87.6	70.0 to 130	6.41	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19922	Antimony, Dissolved	mg/L	0.000192	0.00100	0.100	0.0930	0.0973	0.0893	0.0850 to 0.115	93.0	70.0 to 130	4.52	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19922	Arsenic, Dissolved	mg/L	0.0000152	0.000176	0.100	0.110	0.112	0.0992	0.0850 to 0.115	91.2	70.0 to 130	1.80	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19922	Barium, Dissolved	mg/L	0.0000151	0.00100	0.100	0.170	0.171	0.0970	0.0850 to 0.115	92.6	70.0 to 130	0.587	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19922	Beryllium, Dissolved	mg/L	0.0000042	0.000880	0.100	0.0965	0.102	0.100	0.0850 to 0.115	96.5	70.0 to 130	5.54	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19922	Boron, Dissolved	mg/L	-0.00122	0.0650	1.00	1.07	1.07	0.998	0.850 to 1.15	99.9	70.0 to 130	0.00	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19922	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0975	0.0988	0.0967	0.0850 to 0.115	97.5	70.0 to 130	1.32	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19922	Calcium, Dissolved	mg/L	-0.00559	0.152	5.00	10.8	11.0	4.73	4.25 to 5.75	89.4	70.0 to 130	1.83	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19922	Chromium, Dissolved	mg/L	-0.0000103	0.000440	0.100	0.0929	0.0983	0.0967	0.0850 to 0.115	92.9	70.0 to 130	5.65	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19922	Cobalt, Dissolved	mg/L	-0.0000068	0.000147	0.100	0.134	0.139	0.0984	0.0850 to 0.115	98.7	70.0 to 130	3.66	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19922	Iron, Dissolved	mg/L	-0.000298	0.0176	0.2	103	104	0.199	0.170 to 0.230	-1500	70.0 to 130	0.966	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 09:52
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BC19922

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Prec		
BC19922	Lead, Dissolved	mg/L	0.0000009	0.000147	0.100	0.0960	0.0990	0.0949	0.0850 to 0.115	96.0	70.0 to 130	3.08	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19922	Lithium, Dissolved	mg/L	0.000186	0.0154	0.200	0.221	0.218	0.210	0.170 to 0.230	110	70.0 to 130	1.37	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19922	Magnesium, Dissolved	mg/L	-0.0159	0.0462	5.00	10.2	10.2	5.14	4.25 to 5.75	98.6	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19922	Manganese, Dissolved	mg/L	0.0000356	0.00033	0.100	0.783	0.797	0.100	0.0850 to 0.115	85.0	70.0 to 130	1.77	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19922	Molybdenum, Dissolved	mg/L	0.0000189	0.0002	0.100	0.0945	0.0956	0.0961	0.0850 to 0.115	92.8	70.0 to 130	1.16	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19922	Potassium, Dissolved	mg/L	0.00859	0.367	10.0	11.7	12.2	9.94	8.50 to 11.5	90.6	70.0 to 130	4.18	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19922	Selenium, Dissolved	mg/L	0.0000280	0.00100	0.100	0.0960	0.100	0.103	0.0850 to 0.115	96.0	70.0 to 130	4.08	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19922	Silicon, Dissolved	mg/L	-0.00103	0.0440	1.00	7.08	7.09	0.968	0.850 to 1.15	93.0	70.0 to 130	0.141	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19922	Sodium, Dissolved	mg/L	0.00497	0.0660	5.00	47.0	47.2	5.12	4.25 to 5.75	50.0	70.0 to 130	0.425	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19922	Thallium, Dissolved	mg/L	-0.0000031	0.000147	0.100	0.0935	0.0990	0.0944	0.0850 to 0.115	93.5	70.0 to 130	5.71	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 09:52
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-15

Laboratory ID Number: BC19922

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-4

Location Code: WMWBARAPFB
Collected: 11/1/22 10:30
Customer ID:
Submittal Date: 11/2/22 09:53

Laboratory ID Number: BC19923

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 11:28		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/8/22 10:56	11/9/22 11:28		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	11/8/22 10:56	11/9/22 11:28		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	11/8/22 10:56	11/9/22 11:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/22 10:56	11/9/22 11:28		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:28		1	Not Detected	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 11:28		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	11/8/22 10:56	11/9/22 11:28		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	11/8/22 10:56	11/8/22 13:28		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:25		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: SC								
* Nitrogen, Nitrate/Nitrite	11/3/22 14:45	11/3/22 14:45		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-4

Location Code: WMWBARAPFB

Collected: 11/1/22 10:30

Customer ID:

Submittal Date: 11/2/22 09:53

Laboratory ID Number: BC19923

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 00:25	11/3/22 00:25		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:22	11/8/22 10:22		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:39	11/8/22 14:39		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:31	11/10/22 09:31		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 11/1/22 10:30
Customer ID:
Delivery Date: 11/2/22 09:53

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BC19923

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 11/1/22 10:30

Customer ID:

Delivery Date: 11/2/22 09:53

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BC19923

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 11/1/22 10:30

Customer ID:

Delivery Date: 11/2/22 09:53

Description: Barry Ash Pond Field Blank-4

Laboratory ID Number: BC19923

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec Rec	Rec Limit	Prec	Prec Limit
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 11/1/22 10:47
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19924

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:31		1.015	0.361	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 11:31		1.015	5.52	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:02		10.15	29.4	mg/L	0.08120	0.406	
* Lithium, Total	11/8/22 10:56	11/9/22 11:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:31		1.015	3.04	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:31		1	14.1	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:31		1.015	6.61	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 14:02		10.15	206	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:13		1.015	0.371	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:13		1.015	5.95	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 13:58		10.15	25.8	mg/L	0.08120	0.406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:13		1.015	3.06	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:13		1	14.7	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:13		1.015	6.87	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:58		10.15	173	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 13:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 13:32		1.015	0.0173	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 13:32		1.015	0.00570	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 13:32		1.015	0.0617	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 13:32		1.015	0.000613	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 13:32		1.015	0.00405	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 13:32		1.015	0.323	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:32		1.015	0.00119	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 13:32		1.015	2.89	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 11/1/22 10:47
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19924

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	0.00580	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	0.0651	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	0.000370	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	0.00394	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	0.317	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	0.00139	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	2.75	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:47	11/3/22 14:47		1	0.241	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	152	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	464	mg/L		50	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	152	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 00:45	11/3/22 00:45		1	9.62	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14V

Location Code: WMWBARAP
Collected: 11/1/22 10:47
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19924

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:36	11/8/22 10:36		25	175	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:40	11/8/22 14:40		1	0.275	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:32	11/10/22 09:32		1	10.7	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/1/22 10:45	11/1/22 10:45			923.70	uS/cm			FA
pH	11/1/22 10:45	11/1/22 10:45			6.90	SU			FA
Temperature	11/1/22 10:45	11/1/22 10:45			21.07	C			FA
Turbidity	11/1/22 10:45	11/1/22 10:45			0.71	NTU			FA
Sulfide	11/1/22 10:45	11/1/22 10:45			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 10:47

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BC19924

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 10:47

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BC19924

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 10:47

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-14V

Laboratory ID Number: BC19924

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 10/31/22 12:15
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19925

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:34		1.015	0.630	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 11:34		1.015	31.7	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:05		101.5	61.2	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:34		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:34		1.015	6.87	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:34		1	24.8	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:34		1.015	11.6	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:34		1.015	16.5	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:16		1.015	0.641	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:16		1.015	33.0	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:01		101.5	52.6	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:16		1.015	6.81	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:16		1	25.7	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:16		1.015	12.0	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 12:16		1.015	16.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 13:36		1.015	0.0149	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 13:36		1.015	0.000896	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 13:36		1.015	0.123	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:36		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 13:36		1.015	0.000431	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 13:36		1.015	0.000530	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 16:12		5.075	1.71	mg/L	0.000761	0.005075	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:36		1.015	0.000139	mg/L	0.000102	0.000203	J
* Potassium, Total	11/8/22 10:56	11/8/22 13:36		1.015	1.35	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 10/31/22 12:15
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19925

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:36		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:36		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	0.000914	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	0.123	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	0.000329	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	0.000498	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/8/22 10:58		5.075	1.63	mg/L	0.000761	0.005075	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	0.000144	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	1.33	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:53		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:33		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:49	11/3/22 14:49		1	0.306	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	159	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	249	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	159	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 00:59	11/3/22 00:59		1	18.8	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-19H

Location Code: WMWBARAP
Collected: 10/31/22 12:15
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19925

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:24	11/8/22 10:24		1	15.2	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:42	11/8/22 14:42		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:34	11/10/22 09:34		1	23.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/31/22 12:11	10/31/22 12:11			524.42	uS/cm			FA
pH	10/31/22 12:11	10/31/22 12:11			6.10	SU			FA
Temperature	10/31/22 12:11	10/31/22 12:11			20.51	C			FA
Turbidity	10/31/22 12:11	10/31/22 12:11			1.45	NTU			FA
Sulfide	10/31/22 12:11	10/31/22 12:11			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:15
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BC19925

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:15
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BC19925

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 12:15
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-19H

Laboratory ID Number: BC19925

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 10/31/22 13:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19926

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:38		1.015	0.0600	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:38		1.015	28.0	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:08		101.5	53.5	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:38		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:38		1.015	17.3	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:38		1	16.4	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:38		1.015	7.68	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 14:08		101.5	94.0	mg/L	3.045	40.6	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:19		1.015	0.0767	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:19		1.015	29.3	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:05		101.5	52.3	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:19		1.015	17.3	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:19		1	17.0	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:19		1.015	7.95	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:05		101.5	89.4	mg/L	3.045	40.6	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 13:39		1.015	0.0121	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 13:39		1.015	0.0131	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 13:39		1.015	0.0954	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:39		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 13:39		1.015	0.00246	mg/L	0.000203	0.001015	
* Cobalt, Total	11/8/22 10:56	11/8/22 13:39		1.015	0.00455	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 13:39		1.015	0.510	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:39		1.015	0.000556	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 13:39		1.015	3.44	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 10/31/22 13:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19926

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	0.00800	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	0.0126	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	0.0943	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	0.00218	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	0.00428	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	0.482	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	0.000484	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	3.12	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 14:56		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:37		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:51	11/3/22 14:51		1	0.325	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	316	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	482	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	316	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 01:14	11/3/22 01:14		1	29.0	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20H

Location Code: WMWBARAP
Collected: 10/31/22 13:00
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19926

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:37	11/8/22 10:37		4	35.3	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:43	11/8/22 14:43		1	0.0822	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:43	11/10/22 09:43		4	103	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/31/22 12:57	10/31/22 12:57			896.89	uS/cm			FA
pH	10/31/22 12:57	10/31/22 12:57			6.12	SU			FA
Temperature	10/31/22 12:57	10/31/22 12:57			20.37	C			FA
Turbidity	10/31/22 12:57	10/31/22 12:57			1.98	NTU			FA
Sulfide	10/31/22 12:57	10/31/22 12:57			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 13:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BC19926

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 13:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BC19926

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 13:00
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-20H

Laboratory ID Number: BC19926

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 10/31/22 14:02
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19927

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:41		1.015	0.0346	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 11:41		1.015	13.8	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:11		101.5	79.1	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 11:41		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:41		1.015	13.0	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:41		1	19.2	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:41		1.015	8.95	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 14:11		101.5	89.3	mg/L	3.045	40.6	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:23		1.015	0.0703	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:23		1.015	15.1	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:08		101.5	69.8	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:23		1.015	13.2	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:23		1	19.7	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:23		1.015	9.19	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:08		101.5	75.2	mg/L	3.045	40.6	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 13:43		1.015	0.00934	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 13:43		1.015	0.0183	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 13:43		1.015	0.200	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 13:43		1.015	0.000493	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 13:43		1.015	0.00274	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 13:43		1.015	0.529	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:43		1.015	0.00132	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 13:43		1.015	1.93	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 10/31/22 14:02
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19927

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	0.0181	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	0.211	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	0.000379	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	0.00273	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	0.540	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	0.00130	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	1.95	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:00		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:41		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:52	11/3/22 14:52		1	0.329	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/9/22 13:06	11/9/22 14:37		1	184	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	363	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	184	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/9/22 13:06	11/9/22 14:37		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 01:29	11/3/22 01:29		1	20.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-22H

Location Code: WMWBARAP
Collected: 10/31/22 14:02
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19927

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:38	11/8/22 10:38		8	61.6	mg/L	4.00	8	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:44	11/8/22 14:44		1	0.257	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:44	11/10/22 09:44		4	110	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/31/22 13:59	10/31/22 13:59			784.96	uS/cm			FA
pH	10/31/22 13:59	10/31/22 13:59			6.46	SU			FA
Temperature	10/31/22 13:59	10/31/22 13:59			20.62	C			FA
Turbidity	10/31/22 13:59	10/31/22 13:59			3.49	NTU			FA
Sulfide	10/31/22 13:59	10/31/22 13:59			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:02
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BC19927

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:02
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BC19927

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 14:02
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-22H

Laboratory ID Number: BC19927

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19927	Alkalinity to pH 4.5	mg CaCO3/L					184	50.8	45.0 to 55.0			0.00	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 10/31/22 16:02
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19928

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:44		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/22 10:56	11/9/22 11:44		1.015	1.63	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 11:44		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/8/22 10:56	11/9/22 11:44		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:44		1.015	1.18	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:44		1	13.0	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:44		1.015	6.09	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:44		1.015	7.32	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:26		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:26		1.015	1.80	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 12:26		1.015	0.0184	mg/L	0.008120	0.0406	J
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:26		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:26		1.015	1.18	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:26		1	13.5	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:26		1.015	6.33	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 12:26		1.015	7.00	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 13:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 13:47		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 13:47		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	11/8/22 10:56	11/8/22 13:47		1.015	0.0263	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 13:47		1.015	0.0000682	mg/L	0.000068	0.000203	J
* Chromium, Total	11/8/22 10:56	11/8/22 13:47		1.015	0.000281	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 13:47		1.015	0.000588	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 13:47		1.015	0.00148	mg/L	0.000068	0.000203	
* Manganese, Total	11/8/22 10:56	11/8/22 13:47		1.015	0.00468	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:47		1.015	0.000122	mg/L	0.000102	0.000203	J
* Potassium, Total	11/8/22 10:56	11/8/22 13:47		1.015	1.08	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 10/31/22 16:02
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19928

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	0.0248	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	0.000542	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	0.00138	mg/L	0.000068	0.000203	
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	0.00449	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	0.000142	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	0.985	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:04		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:45		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:52	11/3/22 14:52		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 12:00		1	12.3	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	46.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	12.3	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 01:44	11/3/22 01:44		1	3.72	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-6

Location Code: WMWBARAP
Collected: 10/31/22 16:02
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19928

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:28	11/8/22 10:28		1	7.48	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:45	11/8/22 14:45		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:37	11/10/22 09:37		1	1.22	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/31/22 15:59	10/31/22 15:59			220.73	uS/cm			FA
pH	10/31/22 15:59	10/31/22 15:59			4.90	SU			FA
Temperature	10/31/22 15:59	10/31/22 15:59			21.05	C			FA
Turbidity	10/31/22 15:59	10/31/22 15:59			1.1	NTU			FA
Sulfide	10/31/22 15:59	10/31/22 15:59			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:02
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BC19928

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19933	Arsenic, Dissolved	mg/L	0.000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:02
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BC19928

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 16:02
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-6

Laboratory ID Number: BC19928

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19927	Solids, Dissolved	mg/L	1.00	25.0			354	51.0	40.0 to 60.0			2.51	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 10/31/22 17:07
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19929

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 11:47		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/8/22 10:56	11/9/22 11:47		1.015	0.951	mg/L	0.070035	0.406		
* Iron, Total	11/8/22 10:56	11/9/22 11:47		1.015	0.0389	mg/L	0.008120	0.0406	J	
* Lithium, Total	11/8/22 10:56	11/9/22 11:47		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/22 10:56	11/9/22 11:47		1.015	0.749	mg/L	0.021315	0.406		
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:47		1	16.1	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 11:47		1.015	7.51	mg/L	0.02030	0.25375		
* Sodium, Total	11/8/22 10:56	11/9/22 11:47		1.015	6.20	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:29		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:29		1.015	1.04	mg/L	0.070035	0.406		
* Iron, Dissolved	11/4/22 10:13	11/8/22 12:29		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:29		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:29		1.015	0.746	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:29		1	16.8	mg/L				
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:29		1.015	7.86	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/4/22 10:13	11/8/22 12:29		1.015	5.99	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 13:50		1.015	0.00900	mg/L	0.006090	0.01015	J	
* Arsenic, Total	11/8/22 10:56	11/8/22 13:50		1.015	0.000176	mg/L	0.000081	0.000203	J	
* Barium, Total	11/8/22 10:56	11/8/22 13:50		1.015	0.0198	mg/L	0.000508	0.001015		
* Beryllium, Total	11/8/22 10:56	11/8/22 13:50		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 13:50		1.015	0.00111	mg/L	0.000203	0.001015		
* Cobalt, Total	11/8/22 10:56	11/8/22 13:50		1.015	0.00135	mg/L	0.000068	0.000203		
* Lead, Total	11/8/22 10:56	11/8/22 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/8/22 10:56	11/8/22 13:50		1.015	0.00344	mg/L	0.000152	0.001015		
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:50		1.015	0.000107	mg/L	0.000102	0.000203	J	
* Potassium, Total	11/8/22 10:56	11/8/22 13:50		1.015	0.905	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 10/31/22 17:07
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19929

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:50		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:50		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	0.0000869	mg/L	0.000081	0.000203	J
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	0.0194	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	0.000938	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	0.00135	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	0.00311	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	0.867	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:07		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:49		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:53	11/3/22 14:53		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 12:00		1	9.48	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	40.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	9.47	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 12:00		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 02:02	11/3/22 02:02		1	2.48	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25H

Location Code: WMWBARAP
Collected: 10/31/22 17:07
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19929

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:29	11/8/22 10:29		1	5.67	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:46	11/8/22 14:46		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:38	11/10/22 09:38		1	4.57	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	10/31/22 17:04	10/31/22 17:04			216.38	uS/cm			FA
pH	10/31/22 17:04	10/31/22 17:04			5.11	SU			FA
Temperature	10/31/22 17:04	10/31/22 17:04			22.42	C			FA
Turbidity	10/31/22 17:04	10/31/22 17:04			0.74	NTU			FA
Sulfide	10/31/22 17:04	10/31/22 17:04			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 17:07
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BC19929

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 17:07
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BC19929

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 10/31/22 17:07
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-25H

Laboratory ID Number: BC19929

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19933	Solids, Dissolved	mg/L	1.00	25.0			229	51.0	40.0 to 60.0			2.59	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 11/1/22 08:15
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19930

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 11:50		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/22 10:56	11/9/22 11:50		1.015	0.609	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 11:50		1.015	0.0384	mg/L	0.008120	0.0406	J
* Lithium, Total	11/8/22 10:56	11/9/22 11:50		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 11:50		1.015	0.376	mg/L	0.021315	0.406	J
Silica, Total (calc.)	11/8/22 10:56	11/9/22 11:50		1	13.7	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 11:50		1.015	6.41	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 11:50		1.015	4.85	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:33		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:33		1.015	0.649	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 12:33		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:33		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:33		1.015	0.361	mg/L	0.021315	0.406	J
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:33		1	14.4	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:33		1.015	6.73	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 12:33		1.015	4.63	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 13:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 13:54		1.015	0.0103	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 13:54		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	11/8/22 10:56	11/8/22 13:54		1.015	0.0106	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 13:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 13:54		1.015	0.00131	mg/L	0.000203	0.001015	
* Cobalt, Total	11/8/22 10:56	11/8/22 13:54		1.015	0.000337	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 13:54		1.015	0.00491	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 13:54		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 13:54		1.015	0.804	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Mercury precision is out of specification limit.
 Mercury matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 11/1/22 08:15
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19930

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 13:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 13:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	0.0105	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	0.00115	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	0.000311	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	0.00461	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	0.709	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:11		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 01:53		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/3/22 14:54	11/3/22 14:54		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	6.34	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	32.0	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	6.34	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/3/22 02:19	11/3/22 02:19		1	2.34	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Mercury precision is out of specification limit.
 Mercury matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Barry Ash Pond - MW-25V

Location Code: WMWBARAP
Collected: 11/1/22 08:15
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19930

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:30	11/8/22 10:30		1	3.52	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 14:48	11/8/22 14:48		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:40	11/10/22 09:40		1	1.85	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/22 08:12	11/1/22 08:12			89.23	uS/cm			FA
pH	11/1/22 08:12	11/1/22 08:12			4.22	SU			FA
Temperature	11/1/22 08:12	11/1/22 08:12			21.70	C			FA
Turbidity	11/1/22 08:12	11/1/22 08:12			2.08	NTU			FA
Sulfide	11/1/22 08:12	11/1/22 08:12			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Mercury precision is out of specification limit.
 Mercury matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 08:15
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BC19930

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC19930	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.107	0.111	0.0995	0.0850 to 0.115	96.7	70.0 to 130	3.67	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC19930	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.0977	0.0970	0.0956	0.0850 to 0.115	97.7	70.0 to 130	0.719	20.0
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC19930	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.0982	0.0987	0.102	0.0850 to 0.115	98.2	70.0 to 130	0.508	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC19930	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.110	0.108	0.0979	0.0850 to 0.115	99.4	70.0 to 130	1.83	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC19930	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0945	0.0967	0.0951	0.0850 to 0.115	94.5	70.0 to 130	2.30	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC19930	Boron, Total	mg/L	0.000449	0.0650	1.00	1.02	1.02	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC19930	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0978	0.0999	0.103	0.0850 to 0.115	97.8	70.0 to 130	2.12	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC19930	Calcium, Total	mg/L	0.00597	0.152	5.00	5.41	5.42	4.86	4.25 to 5.75	96.0	70.0 to 130	0.185	20.0
BC19930	Chloride	mg/L	0.00548	1.00	10.0	13.9	13.9	9.84	9.00 to 11.0	104	80.0 to 120	0.00	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC19930	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.104	0.104	0.0850 to 0.115	101	70.0 to 130	1.94	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC19930	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.108	0.108	0.0850 to 0.115	106	70.0 to 130	1.87	20.0
BC19930	Fluoride	mg/L	0.0606	0.125	2.50	2.39	2.65	2.49	2.25 to 2.75	95.6	80.0 to 120	10.3	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC19930	Iron, Total	mg/L	-0.000088	0.0176	0.2	0.244	0.245	0.200	0.170 to 0.230	103	70.0 to 130	0.409	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Mercury precision is out of specification limit.
 Mercury matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 08:15

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BC19930

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC19930	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC19930	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.211	0.205	0.170 to 0.230	104	70.0 to 130	0.952	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC19930	Magnesium, Total	mg/L	0.0120	0.0462	5.00	5.39	5.43	5.05	4.25 to 5.75	100	70.0 to 130	0.739	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC19930	Manganese, Total	mg/L	0.0000406	0.00033	0.100	0.110	0.111	0.105	0.0850 to 0.115	105	70.0 to 130	0.905	20.0
BC19930	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00321	0.00233	0.00405	0.00340 to 0.00460	80.2	70.0 to 130	31.8	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC19930	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.100	0.102	0.0850 to 0.115	100	70.0 to 130	0.00	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC19930	Potassium, Total	mg/L	0.0262	0.367	10.0	10.9	11.0	10.2	8.50 to 11.5	101	70.0 to 130	0.913	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC19930	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.101	0.102	0.103	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC19930	Silicon, Total	mg/L	-0.000864	0.0440	1.00	7.45	7.45	0.995	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC19930	Sodium, Total	mg/L	0.00738	0.0660	5.00	10.1	10.1	5.14	4.25 to 5.75	105	70.0 to 130	0.00	20.0
BC19930	Sulfate	mg/L	-0.218	2.0	20.0	23.3	23.4	20.0	18.0 to 22.0	107	80.0 to 120	0.428	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC19930	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.107	0.107	0.106	0.0850 to 0.115	107	70.0 to 130	0.00	20.0
BC19930	Total Organic Carbon	mg/L	0.271	1.00	10.0	11.8	11.2	9.87		94.6	80.0 to 120	5.22	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Mercury precision is out of specification limit.
 Mercury matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 08:15

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-25V

Laboratory ID Number: BC19930

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC19930	Nitrogen, Nitrate/Nitrite	mg/L as N	0.10	0.200	2.00	2.04	0.159	2.01	1.80 to 2.20	102	90.0 to 110	0.00	15.0
BC19933	Solids, Dissolved	mg/L	1.00	25.0			229	51.0	40.0 to 60.0			2.59	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.
 Mercury precision is out of specification limit.
 Mercury matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 11/1/22 09:14
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19931

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 12:06		1.015	0.345	mg/L	0.030000	0.1015		
* Calcium, Total	11/8/22 10:56	11/9/22 12:06		1.015	3.65	mg/L	0.070035	0.406		
* Iron, Total	11/8/22 10:56	11/9/22 12:06		1.015	1.75	mg/L	0.008120	0.0406		
* Lithium, Total	11/8/22 10:56	11/9/22 12:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/22 10:56	11/9/22 12:06		1.015	2.59	mg/L	0.021315	0.406		
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:06		1	14.5	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 12:06		1.015	6.77	mg/L	0.02030	0.25375		
* Sodium, Total	11/8/22 10:56	11/9/22 14:14		10.15	384	mg/L	0.3045	4.06		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:36		1.015	0.357	mg/L	0.030000	0.1015		
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:36		1.015	3.90	mg/L	0.070035	0.406		
* Iron, Dissolved	11/4/22 10:13	11/8/22 12:36		1.015	1.88	mg/L	0.008120	0.0406		
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:36		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:36		1.015	2.62	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:36		1	15.4	mg/L				
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:36		1.015	7.20	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:11		10.15	314	mg/L	0.3045	4.06		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 14:16		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 14:16		1.015	0.00929	mg/L	0.006090	0.01015	J	
* Arsenic, Total	11/8/22 10:56	11/8/22 14:16		1.015	0.00195	mg/L	0.000081	0.000203		
* Barium, Total	11/8/22 10:56	11/8/22 14:16		1.015	0.0360	mg/L	0.000508	0.001015		
* Beryllium, Total	11/8/22 10:56	11/8/22 14:16		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 14:16		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 14:16		1.015	Not Detected	mg/L	0.000203	0.001015	U	
* Cobalt, Total	11/8/22 10:56	11/8/22 14:16		1.015	0.000236	mg/L	0.000068	0.000203		
* Lead, Total	11/8/22 10:56	11/8/22 14:16		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/8/22 10:56	11/8/22 14:16		1.015	0.0645	mg/L	0.000152	0.001015		
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:16		1.015	0.000634	mg/L	0.000102	0.000203		
* Potassium, Total	11/8/22 10:56	11/8/22 14:16		1.015	3.35	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 11/1/22 09:14
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19931

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 14:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 14:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	0.00198	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	0.0341	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	0.000220	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	0.0608	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	0.000580	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	3.14	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:14		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:12		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:30	11/4/22 11:30		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	202	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	858	mg/L		75.8	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	200	mg CaCO3/L		1	A
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	1.84	mg CaCO3/L		0.5	A
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 11:24	11/4/22 11:24		1	11.1	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23V

Location Code: WMWBARAP
Collected: 11/1/22 09:14
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19931

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:54	11/8/22 10:54		80	365	mg/L	40.00	80	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:01	11/8/22 15:01		1	0.222	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:54	11/10/22 09:54		1	11.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/22 09:11	11/1/22 09:11			1482.52	uS/cm			FA
pH	11/1/22 09:11	11/1/22 09:11			7.36	SU			FA
Temperature	11/1/22 09:11	11/1/22 09:11			20.16	C			FA
Turbidity	11/1/22 09:11	11/1/22 09:11			0.99	NTU			FA
Sulfide	11/1/22 09:11	11/1/22 09:11			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 09:14
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BC19931

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0	
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0	
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0	
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0	
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0	
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0	
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0	
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0	
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0	
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0	
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0	
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0	
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0	
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0	
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0	
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0	
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0	
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0	
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0	
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0	
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0	
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0	
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 09:14

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BC19931

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 09:14

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23V

Laboratory ID Number: BC19931

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC19933	Solids, Dissolved	mg/L	1.00	25.0			229	51.0	40.0 to 60.0			2.59	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 11/1/22 10:16
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19932

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	11/8/22 10:56	11/9/22 12:09		1.015	0.0382	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 12:09		1.015	23.9	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:17		101.5	63.6	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 12:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 12:09		1.015	6.68	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:09		1	33.8	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 12:09		1.015	15.8	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 12:09		1.015	19.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:40		1.015	0.0554	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:40		1.015	23.8	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:15		101.5	52.8	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:40		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:40		1.015	6.65	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:40		1	33.8	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:40		1.015	15.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 12:40		1.015	19.7	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	11/8/22 10:56	11/8/22 14:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 14:19		1.015	0.00952	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 14:19		1.015	0.00463	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 14:19		1.015	0.171	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 14:19		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 14:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 14:19		1.015	0.000394	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 14:19		1.015	0.000760	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 14:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 14:19		1.015	0.941	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:19		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 14:19		1.015	1.11	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 11/1/22 10:16
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19932

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 14:19		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 14:19		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	0.00448	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	0.176	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	0.000418	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	0.000631	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	0.943	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	1.14	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:18		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:16		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:32	11/4/22 11:32		1	0.281	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	152	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	228	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	152	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 11:44	11/4/22 11:44		1	22.8	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H

Location Code: WMWBARAP
Collected: 11/1/22 10:16
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19932

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:49	11/8/22 10:49		1	7.96	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:02	11/8/22 15:02		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:56	11/10/22 09:56		1	5.37	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/22 10:13	11/1/22 10:13			442.68	uS/cm			FA
pH	11/1/22 10:13	11/1/22 10:13			6.00	SU			FA
Temperature	11/1/22 10:13	11/1/22 10:13			20.03	C			FA
Turbidity	11/1/22 10:13	11/1/22 10:13			2.5	NTU			FA
Sulfide	11/1/22 10:13	11/1/22 10:13			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 10:16
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BC19932

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 10:16

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BC19932

Sample	Analysis	Units	MB				Standard		Rec		Prec	Limit	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec			Limit
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 10:16
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23H

Laboratory ID Number: BC19932

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC19933	Solids, Dissolved	mg/L	1.00	25.0			229	51.0	40.0 to 60.0			2.59	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H Dup

Location Code: WMWBARAP
Collected: 11/1/22 10:16
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19933

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 12:12		1.015	0.0441	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 12:12		1.015	24.4	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:21		101.5	60.8	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 12:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 12:12		1.015	6.53	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:12		1	33.0	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 12:12		1.015	15.4	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 12:12		1.015	18.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 12:43		1.015	0.0562	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 12:43		1.015	23.9	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:18		101.5	50.2	mg/L	0.8120	4.06	RA
* Lithium, Dissolved	11/4/22 10:13	11/8/22 12:43		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 12:43		1.015	6.61	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 12:43		1	33.8	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 12:43		1.015	15.8	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 12:43		1.015	19.3	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 14:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 14:23		1.015	0.0130	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 14:23		1.015	0.00449	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 14:23		1.015	0.164	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 14:23		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 14:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 14:23		1.015	0.000486	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 14:23		1.015	0.000639	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 14:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 14:23		1.015	0.878	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:23		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 14:23		1.015	1.07	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H Dup

Location Code: WMWBARAP
Collected: 11/1/22 10:16
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19933

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 14:23		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 14:23		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	0.00445	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	0.165	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	0.000342	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	0.000611	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	0.872	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	1.06	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:22		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:20		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:34	11/4/22 11:34		1	0.273	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/14/22 11:20	11/14/22 15:48		1	147	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	235	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	147	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/14/22 11:20	11/14/22 15:48		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 12:04	11/4/22 12:04		1	22.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-23H Dup

Location Code: WMWBARAP
Collected: 11/1/22 10:16
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19933

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:50	11/8/22 10:50		1	7.77	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:03	11/8/22 15:03		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:57	11/10/22 09:57		1	5.74	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/22 10:13	11/1/22 10:13			442.68	uS/cm			FA
pH	11/1/22 10:13	11/1/22 10:13			6.00	SU			FA
Temperature	11/1/22 10:13	11/1/22 10:13			20.03	C			FA
Turbidity	11/1/22 10:13	11/1/22 10:13			2.5	NTU			FA
Sulfide	11/1/22 10:13	11/1/22 10:13			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 10:16
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23H Dup

Laboratory ID Number: BC19933

Sample	Analysis	Units	MB	MB				Standard		Rec			Prec Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC19933	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0912	0.0905	0.0873	0.0850 to 0.115	91.2	70.0 to 130	0.771	20.0
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC19933	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0988	0.0990	0.0889	0.0850 to 0.115	98.8	70.0 to 130	0.202	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC19933	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.0964	0.0977	0.0954	0.0850 to 0.115	92.0	70.0 to 130	1.34	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC19933	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.261	0.259	0.0931	0.0850 to 0.115	96.0	70.0 to 130	0.769	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC19933	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.0993	0.0970	0.0850 to 0.115	101	70.0 to 130	1.70	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC19933	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.07	1.08	1.01	0.850 to 1.15	101	70.0 to 130	0.930	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC19933	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0974	0.0951	0.0960	0.0850 to 0.115	97.4	70.0 to 130	2.39	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC19933	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	28.7	28.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.348	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC19933	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0967	0.0950	0.0964	0.0850 to 0.115	96.4	70.0 to 130	1.77	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC19933	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.101	0.0997	0.0993	0.0850 to 0.115	100	70.0 to 130	1.30	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC19933	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	53.7	54.2	0.203	0.170 to 0.230	1750	70.0 to 130	0.927	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 10:16

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23H Dup

Laboratory ID Number: BC19933

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC19933	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0965	0.0952	0.0962	0.0850 to 0.115	96.5	70.0 to 130	1.36	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC19933	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.206	0.208	0.193	0.170 to 0.230	103	70.0 to 130	0.966	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC19933	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.6	11.6	5.02	4.25 to 5.75	99.8	70.0 to 130	0.00	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC19933	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.966	0.952	0.0986	0.0850 to 0.115	94.0	70.0 to 130	1.46	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC19933	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0946	0.0959	0.0943	0.0850 to 0.115	94.6	70.0 to 130	1.36	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC19933	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	10.7	10.4	9.54	8.50 to 11.5	96.4	70.0 to 130	2.84	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC19933	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0978	0.0963	0.0850 to 0.115	101	70.0 to 130	3.22	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC19933	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	16.7	16.6	1.01	0.850 to 1.15	90.0	70.0 to 130	0.601	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC19933	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	24.8	24.9	5.00	4.25 to 5.75	110	70.0 to 130	0.402	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0
BC19933	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0953	0.0951	0.0966	0.0850 to 0.115	95.3	70.0 to 130	0.210	20.0
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 10:16

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond - MW-23H Dup

Laboratory ID Number: BC19933

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC19913	Alkalinity to pH 4.5	mg CaCO3/L					200	50.5	45.0 to 55.0			2.02	10.0
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC19933	Solids, Dissolved	mg/L	1.00	25.0			229	51.0	40.0 to 60.0			2.59	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-3

Location Code: WMWBARAPFB
Collected: 11/1/22 10:45
Customer ID:
Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19934

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 12:15		1.015	Not Detected	mg/L	0.030000	0.1015	U	
* Calcium, Total	11/8/22 10:56	11/9/22 12:15		1.015	Not Detected	mg/L	0.070035	0.406	U	
* Iron, Total	11/8/22 10:56	11/9/22 12:15		1.015	Not Detected	mg/L	0.008120	0.0406	U	
* Lithium, Total	11/8/22 10:56	11/9/22 12:15		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/22 10:56	11/9/22 12:15		1.015	Not Detected	mg/L	0.021315	0.406	U	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:15		1	Not Detected	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 12:15		1.015	Not Detected	mg/L	0.02030	0.25375	U	
* Sodium, Total	11/8/22 10:56	11/9/22 12:15		1.015	Not Detected	mg/L	0.03045	0.406	U	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.006090	0.01015	U	
* Arsenic, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000081	0.000203	U	
* Barium, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Beryllium, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 14:26		1.015	0.000269	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Lead, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000152	0.001015	U	
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.169505	0.5075	U	
* Selenium, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Thallium, Total	11/8/22 10:56	11/8/22 14:26		1.015	Not Detected	mg/L	0.000068	0.000203	U	
Analytical Method: EPA 245.1		Analyst: CRB								
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:24		1	Not Detected	mg/L	0.0003	0.0005	U	
Analytical Method: EPA 353.2		Analyst: SC								
* Nitrogen, Nitrate/Nitrite	11/4/22 11:36	11/4/22 11:36		1	Not Detected	mg/L as N	0.20	0.3	U	
Analytical Method: SM 2540C		Analyst: CNJ								
* Solids, Dissolved	11/3/22 09:57	11/4/22 13:15		1	Not Detected	mg/L		25	U	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Field Blank-3

Location Code: WMWBARAPFB

Collected: 11/1/22 10:45

Customer ID:

Submittal Date: 11/2/22 09:52

Laboratory ID Number: BC19934

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 12:20	11/4/22 12:20		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 10:51	11/8/22 10:51		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:04	11/8/22 15:04		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:58	11/10/22 09:58		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 11/1/22 10:45
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BC19934

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB
Sample Date: 11/1/22 10:45
Customer ID:
Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BC19934

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPFB

Sample Date: 11/1/22 10:45

Customer ID:

Delivery Date: 11/2/22 09:52

Description: Barry Ash Pond Field Blank-3

Laboratory ID Number: BC19934

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC19933	Solids, Dissolved	mg/L	1.00	25.0			229	51.0	40.0 to 60.0			2.59	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 11/1/22 14:05
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20086

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	11/8/22 10:56	11/9/22 12:19		1.015	0.0866	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 12:19		1.015	13.8	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:24		101.5	92.9	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 12:19		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 12:19		1.015	7.95	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:19		1	14.0	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 12:19		1.015	6.56	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 14:24		101.5	44.7	mg/L	3.045	40.6	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:00		1.015	0.113	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:00		1.015	14.8	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:28		101.5	87.3	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:00		1.015	7.95	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:00		1	14.4	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:00		1.015	6.71	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:32		10.15	42.7	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	11/8/22 10:56	11/8/22 14:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 14:30		1.015	0.0129	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 14:30		1.015	0.0186	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 14:30		1.015	0.0871	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 14:30		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 14:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 14:30		1.015	0.000578	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 14:30		1.015	0.0309	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 14:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 16:15		5.075	2.11	mg/L	0.000761	0.005075	
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:30		1.015	0.00138	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 14:30		1.015	2.20	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 11/1/22 14:05
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20086

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 14:30		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 14:30		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	0.0183	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	0.0842	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	0.000358	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	0.0289	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/8/22 11:02		5.075	1.95	mg/L	0.000761	0.005075	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	0.00137	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	2.08	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:43		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:28		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:38	11/4/22 11:38		1	0.348	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 11:35	11/15/22 12:17		1	149	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	275	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	149	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 12:37	11/4/22 12:37		1	23.6	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-20V

Location Code: WMWBARAP
Collected: 11/1/22 14:05
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20086

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:03	11/8/22 11:03		2	28.4	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:06	11/8/22 15:06		1	0.0715	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 09:59	11/10/22 09:59		1	6.08	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/1/22 14:02	11/1/22 14:02			542.60	uS/cm			FA
pH	11/1/22 14:02	11/1/22 14:02			6.30	SU			FA
Temperature	11/1/22 14:02	11/1/22 14:02			21.18	C			FA
Turbidity	11/1/22 14:02	11/1/22 14:02			0.37	NTU			FA
Sulfide	11/1/22 14:02	11/1/22 14:02			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 14:05
Customer ID:
Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BC20086

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 14:05

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BC20086

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 14:05

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-20V

Laboratory ID Number: BC20086

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC20096	Alkalinity to pH 4.5	mg CaCO3/L					174	50.7	45.0 to 55.0			1.16	10.0
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 11/1/22 14:54
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20087

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	11/8/22 10:56	11/9/22 12:22		1.015	0.0445	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 12:22		1.015	25.2	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:33		10.15	40.1	mg/L	0.08120	0.406	
* Lithium, Total	11/8/22 10:56	11/9/22 12:22		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 12:22		1.015	6.96	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:22		1	16.5	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 12:22		1.015	7.72	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 14:33		10.15	53.2	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:03		1.015	0.0570	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:03		1.015	25.6	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/10/22 12:47		101.5	37.3	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:03		1.015	6.86	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:03		1	16.8	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:03		1.015	7.85	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:35		10.15	55.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	11/8/22 10:56	11/8/22 14:34		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.0627	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.0208	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.0783	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 14:34		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 14:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.00772	mg/L	0.000203	0.001015	
* Cobalt, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.00274	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.000151	mg/L	0.000068	0.000203	J
* Manganese, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.439	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.00585	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 14:34		1.015	2.34	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 11/1/22 14:54
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20087

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 14:34		1.015	0.000611	mg/L	0.000508	0.001015	J
* Thallium, Total	11/8/22 10:56	11/8/22 14:34		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	0.0115	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	0.0198	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	0.0756	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	0.00677	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	0.00265	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	0.414	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	0.00565	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	2.13	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	0.000693	mg/L	0.000508	0.001015	J
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:47		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:32		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:39	11/4/22 11:39		1	0.220	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 11:35	11/15/22 12:17		1	154	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	313	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	154	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 12:53	11/4/22 12:53		1	27.9	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13

Location Code: WMWBARAP
Collected: 11/1/22 14:54
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20087

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:12	11/8/22 11:12		4	40.2	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:07	11/8/22 15:07		1	0.130	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:09	11/10/22 10:09		3	86.9	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/1/22 14:50	11/1/22 14:50			489.28	uS/cm			FA
pH	11/1/22 14:50	11/1/22 14:50			6.09	SU			FA
Temperature	11/1/22 14:50	11/1/22 14:50			21.32	C			FA
Turbidity	11/1/22 14:50	11/1/22 14:50			4.84	NTU			FA
Sulfide	11/1/22 14:50	11/1/22 14:50			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 14:54
Customer ID:
Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BC20087

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 14:54
Customer ID:
Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BC20087

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 14:54

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-13

Laboratory ID Number: BC20087

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC20096	Alkalinity to pH 4.5	mg CaCO3/L					174	50.7	45.0 to 55.0			1.16	10.0
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 11/1/22 15:30
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20088

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 12:25		1.015	0.0803	mg/L	0.030000	0.1015	J	
* Calcium, Total	11/8/22 10:56	11/9/22 12:25		1.015	12.2	mg/L	0.070035	0.406		
* Iron, Total	11/8/22 10:56	11/9/22 14:36		101.5	53.8	mg/L	0.8120	4.06		
* Lithium, Total	11/8/22 10:56	11/9/22 12:25		1.015	0.0331	mg/L	0.007105	0.01999956		
* Magnesium, Total	11/8/22 10:56	11/9/22 12:25		1.015	6.79	mg/L	0.021315	0.406		
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:25		1	14.4	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 12:25		1.015	6.74	mg/L	0.02030	0.25375		
* Sodium, Total	11/8/22 10:56	11/9/22 14:36		101.5	80.1	mg/L	3.045	40.6		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:07		1.015	0.0950	mg/L	0.030000	0.1015	J	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:07		1.015	12.8	mg/L	0.070035	0.406		
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:45		101.5	48.0	mg/L	0.8120	4.06		
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:07		1.015	0.0347	mg/L	0.007105	0.01999956		
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:07		1.015	6.83	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:07		1	15.0	mg/L				
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:07		1.015	7.03	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:45		101.5	72.4	mg/L	3.045	40.6		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 14:37		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 14:37		1.015	0.0107	mg/L	0.006090	0.01015		
* Arsenic, Total	11/8/22 10:56	11/8/22 14:37		1.015	0.00887	mg/L	0.000081	0.000203		
* Barium, Total	11/8/22 10:56	11/8/22 14:37		1.015	0.0987	mg/L	0.000508	0.001015		
* Beryllium, Total	11/8/22 10:56	11/8/22 14:37		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 14:37		1.015	0.00391	mg/L	0.000203	0.001015		
* Cobalt, Total	11/8/22 10:56	11/8/22 14:37		1.015	0.00112	mg/L	0.000068	0.000203		
* Lead, Total	11/8/22 10:56	11/8/22 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/8/22 10:56	11/8/22 14:37		1.015	0.783	mg/L	0.000152	0.001015		
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:37		1.015	0.000573	mg/L	0.000102	0.000203		
* Potassium, Total	11/8/22 10:56	11/8/22 14:37		1.015	7.00	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 11/1/22 15:30
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20088

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 14:37		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 14:37		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	0.00706	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	0.00868	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	0.0990	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	0.00354	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	0.000981	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	0.771	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	0.000534	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	6.65	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:51		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:36		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:41	11/4/22 11:41		1	0.274	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 11:35	11/15/22 12:17		1	146	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	340	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	146	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 13:08	11/4/22 13:08		1	21.4	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-13V

Location Code: WMWBARAP
Collected: 11/1/22 15:30
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20088

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:06	11/8/22 11:06		4	62.7	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:08	11/8/22 15:08		1	0.069	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:10	11/10/22 10:10		4	136	mg/L	2.4	8	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/1/22 15:27	11/1/22 15:27			559.23	uS/cm			FA
pH	11/1/22 15:27	11/1/22 15:27			6.29	SU			FA
Temperature	11/1/22 15:27	11/1/22 15:27			21.48	C			FA
Turbidity	11/1/22 15:27	11/1/22 15:27			0.44	NTU			FA
Sulfide	11/1/22 15:27	11/1/22 15:27			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 15:30
Customer ID:
Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BC20088

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 15:30

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BC20088

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 15:30

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-13V

Laboratory ID Number: BC20088

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC20096	Alkalinity to pH 4.5	mg CaCO3/L					174	50.7	45.0 to 55.0			1.16	10.0
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 11/2/22 08:02
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	11/8/22 10:56	11/9/22 12:28		1.015	1.59	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 12:28		1.015	31.0	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 14:40		101.5	87.1	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 12:28		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 12:28		1.015	9.67	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:28		1	29.1	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 12:28		1.015	13.6	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 12:28		1.015	20.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:10		1.015	1.63	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:10		1.015	32.2	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:49		101.5	84.1	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:10		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:10		1.015	9.56	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:10		1	29.7	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:10		1.015	13.9	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:10		1.015	20.2	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	11/8/22 10:56	11/8/22 14:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 14:41		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 14:41		1.015	0.0415	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 14:41		1.015	0.149	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 14:41		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 14:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 14:41		1.015	0.00100	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 14:41		1.015	0.000590	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 14:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 16:19		5.075	1.90	mg/L	0.000761	0.005075	
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:41		1.015	0.000232	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 14:41		1.015	0.728	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 11/2/22 08:02
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 14:41		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 14:41		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	0.0412	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	0.147	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	0.000888	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	0.000542	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/8/22 11:05		5.075	1.78	mg/L	0.000761	0.005075	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	0.000193	mg/L	0.000102	0.000203	J
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	0.648	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:54		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:40		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:43	11/4/22 11:43		1	0.319	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 15:10	11/15/22 16:08		1	160	mg CaCO3/L		0.10	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	293	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	160	mg CaCO3/L		1	
Carbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 13:28	11/4/22 13:28		1	25.5	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-8

Location Code: WMWBARAP
Collected: 11/2/22 08:02
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20089

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:07	11/8/22 11:07		2	26.6	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:09	11/8/22 15:09		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:03	11/10/22 10:03		1	7.58	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/2/22 08:00	11/2/22 08:00			529.88	uS/cm			FA
pH	11/2/22 08:00	11/2/22 08:00			6.28	SU			FA
Temperature	11/2/22 08:00	11/2/22 08:00			20.30	C			FA
Turbidity	11/2/22 08:00	11/2/22 08:00			1.02	NTU			FA
Sulfide	11/2/22 08:00	11/2/22 08:00			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/22 08:02
Customer ID:
Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BC20089

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/22 08:02
Customer ID:
Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BC20089

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 08:02

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-8

Laboratory ID Number: BC20089

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BC20093	Alkalinity to pH 4.5	mg CaCO3/L					303	50.7	45.0 to 55.0			0.331	10.0
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond Equipment Blank-1

Location Code: WMWBARAPEB
Collected: 11/2/22 08:30
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	11/8/22 10:56	11/9/22 12:31		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/22 10:56	11/9/22 12:31		1.015	Not Detected	mg/L	0.070035	0.406	U
* Iron, Total	11/8/22 10:56	11/9/22 12:31		1.015	Not Detected	mg/L	0.008120	0.0406	U
* Lithium, Total	11/8/22 10:56	11/9/22 12:31		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 12:31		1.015	Not Detected	mg/L	0.021315	0.406	U
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:31		1	Not Detected	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 12:31		1.015	Not Detected	mg/L	0.02030	0.25375	U
* Sodium, Total	11/8/22 10:56	11/9/22 12:31		1.015	0.0372	mg/L	0.03045	0.406	J
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000081	0.000203	U
* Barium, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Beryllium, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 14:45		1.015	0.000252	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Lead, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000152	0.001015	U
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.169505	0.5075	U
* Selenium, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 14:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1			Analyst: CRB						
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:44		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2			Analyst: SC						
* Nitrogen, Nitrate/Nitrite	11/4/22 11:45	11/4/22 11:45		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2540C			Analyst: CNJ						
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	Not Detected	mg/L		25	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Certificate Of Analysis

Description: Barry Ash Pond Equipment Blank-1

Location Code: WMWBARAPEB

Collected: 11/2/22 08:30

Customer ID:

Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20090

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 13:45	11/4/22 13:45		1	Not Detected	mg/L	1.00	2	U
Analytical Method: SM4500CI E		Analyst: CES							
* Chloride	11/8/22 10:59	11/8/22 10:59		1	Not Detected	mg/L	0.50	1	U
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:10	11/8/22 15:10		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:04	11/10/22 10:04		1	Not Detected	mg/L	0.6	2	U

MDL's and RL's are adjusted for sample dilution, as applicable

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 11/2/22 08:30

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BC20090

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	Limit
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 11/2/22 08:30

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BC20090

Sample	Analysis	Units	MB	MB				Standard		Rec		Prec	
				Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	Limit
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments:

Batch QC Summary

Customer Account: WMWBARAPEB

Sample Date: 11/2/22 08:30

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond Equipment Blank-1

Laboratory ID Number: BC20090

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments:

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 11/2/22 10:30
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 12:35		1.015	2.02	mg/L	0.030000	0.1015	
* Calcium, Total	11/8/22 10:56	11/9/22 14:43		101.5	59.5	mg/L	7.0035	40.6	RA
* Iron, Total	11/8/22 10:56	11/9/22 14:43		101.5	77.0	mg/L	0.8120	4.06	RA
* Lithium, Total	11/8/22 10:56	11/9/22 12:35		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 12:35		1.015	15.7	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:35		1	25.0	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 12:35		1.015	11.7	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 12:35		1.015	26.1	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:13		1.015	2.07	mg/L	0.030000	0.1015	
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:52		101.5	58.4	mg/L	7.0035	40.6	
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:52		101.5	68.6	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:13		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:13		1.015	16.0	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:13		1	25.9	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:13		1.015	12.1	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:13		1.015	27.4	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 14:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 14:48		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Total	11/8/22 10:56	11/8/22 14:48		1.015	0.0742	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 14:48		1.015	0.0617	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 14:48		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 14:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 14:48		1.015	0.000642	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 14:48		1.015	0.000605	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 14:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 16:23		5.075	1.68	mg/L	0.000761	0.005075	RA
* Molybdenum, Total	11/8/22 10:56	11/8/22 14:48		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 14:48		1.015	1.59	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 11/2/22 10:30
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 14:48		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 14:48		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	0.0721	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	0.0589	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	0.000457	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	0.000583	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/8/22 11:09		5.075	1.49	mg/L	0.000761	0.005075	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	1.48	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 15:58		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/4/22 19:22	11/5/22 02:48		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:47	11/4/22 11:47		1	0.341	mg/L as N	0.20	0.3	R
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 15:10	11/15/22 16:08		1	244	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/8/22 11:45	11/9/22 13:47		1	344	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	244	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 14:03	11/4/22 14:03		1	26.9	mg/L	1.00	2	R

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-10

Location Code: WMWBARAP
Collected: 11/2/22 10:30
Customer ID:
Submittal Date: 11/3/22 12:58

Laboratory ID Number: BC20091

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:08	11/8/22 11:08		4	25.1	mg/L	2.00	4	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:12	11/8/22 15:12		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:05	11/10/22 10:05		1	10.2	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: AWG							
Conductivity	11/2/22 10:24	11/2/22 10:24			618.82	uS/cm			FA
pH	11/2/22 10:24	11/2/22 10:24			6.39	SU			FA
Temperature	11/2/22 10:24	11/2/22 10:24			21.33	C			FA
Turbidity	11/2/22 10:24	11/2/22 10:24			1.92	NTU			FA
Sulfide	11/2/22 10:24	11/2/22 10:24			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/22 10:30
Customer ID:
Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BC20091

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20091	Aluminum, Total	mg/L	0.000374	0.010	0.100	0.0979	0.0961	0.0995	0.0850 to 0.115	97.9	70.0 to 130	1.86	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20091	Antimony, Total	mg/L	0.000217	0.00100	0.100	0.101	0.101	0.0956	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20091	Arsenic, Total	mg/L	0.0000236	0.000176	0.100	0.172	0.169	0.102	0.0850 to 0.115	97.8	70.0 to 130	1.76	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20091	Barium, Total	mg/L	-0.0000186	0.00100	0.100	0.155	0.155	0.0979	0.0850 to 0.115	93.3	70.0 to 130	0.00	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20091	Beryllium, Total	mg/L	0.0000108	0.000880	0.100	0.0929	0.0927	0.0951	0.0850 to 0.115	92.9	70.0 to 130	0.216	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20091	Boron, Total	mg/L	0.000449	0.0650	1.00	3.04	3.04	1.00	0.850 to 1.15	102	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20091	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0977	0.0989	0.103	0.0850 to 0.115	97.7	70.0 to 130	1.22	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20091	Calcium, Total	mg/L	0.00597	0.152	5.00	63.8	58.0	4.86	4.25 to 5.75	86.0	70.0 to 130	9.52	20.0
BC20091	Chloride	mg/L	0.0364	1.00	40.0	71.1	69.2	9.77	9.00 to 11.0	115	80.0 to 120	2.71	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20091	Chromium, Total	mg/L	0.0000043	0.000440	0.100	0.102	0.102	0.104	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20091	Cobalt, Total	mg/L	-0.0000003	0.000147	0.100	0.106	0.106	0.108	0.0850 to 0.115	105	70.0 to 130	0.00	20.0
BC20091	Fluoride	mg/L	0.0152	0.125	2.50	2.64	2.75	2.53	2.25 to 2.75	106	80.0 to 120	4.08	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20091	Iron, Total	mg/L	-0.000088	0.0176	0.2	74.1	68.7	0.200	0.170 to 0.230	-1450	70.0 to 130	7.56	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 10:30

Customer ID:

Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BC20091

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20091	Lead, Total	mg/L	0.0000114	0.000147	0.100	0.106	0.107	0.105	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20091	Lithium, Total	mg/L	-0.000008	0.0154	0.200	0.209	0.207	0.205	0.170 to 0.230	104	70.0 to 130	0.962	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20091	Magnesium, Total	mg/L	0.0120	0.0462	5.00	20.5	20.6	5.05	4.25 to 5.75	96.0	70.0 to 130	0.487	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20091	Manganese, Total	mg/L	0.0000406	0.00033	0.100	1.71	1.73	0.105	0.0850 to 0.115	30.0	70.0 to 130	1.16	20.0
BC20091	Mercury, Total by CVAA	mg/L	7.000E-05	0.000500	0.004	0.00409	0.0041	0.00405	0.00340 to 0.00460	102	70.0 to 130	0.244	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20091	Molybdenum, Total	mg/L	0.0000103	0.0002	0.100	0.100	0.0970	0.102	0.0850 to 0.115	100	70.0 to 130	3.05	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20091	Potassium, Total	mg/L	0.0262	0.367	10.0	11.6	11.8	10.2	8.50 to 11.5	100	70.0 to 130	1.71	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20091	Selenium, Total	mg/L	0.0000059	0.00100	0.100	0.102	0.101	0.103	0.0850 to 0.115	102	70.0 to 130	0.985	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20091	Silicon, Total	mg/L	-0.000864	0.0440	1.00	12.6	12.6	0.995	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20091	Sodium, Total	mg/L	0.00738	0.0660	5.00	31.1	30.9	5.14	4.25 to 5.75	100	70.0 to 130	0.645	20.0
BC20091	Sulfate	mg/L	-0.0566	2.0	20.0	27.4	27.4	20.3	18.0 to 22.0	86.0	80.0 to 120	0.00	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20091	Thallium, Total	mg/L	0.0000017	0.000147	0.100	0.106	0.107	0.106	0.0850 to 0.115	106	70.0 to 130	0.939	20.0
BC20091	Total Organic Carbon	mg/L	0.324	1.00	10.0	34.7	36.9	9.47		78.0	80.0 to 120	6.15	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/22 10:30
Customer ID:
Delivery Date: 11/3/22 12:58

Description: Barry Ash Pond - MW-10

Laboratory ID Number: BC20091

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC20093	Alkalinity to pH 4.5	mg CaCO3/L					303	50.7	45.0 to 55.0			0.331	10.0
BC20091	Nitrogen, Nitrate/Nitrite	mg/L as N	0.03	0.200	2.00	2.10	0.302	2.02	1.80 to 2.20	88.0	90.0 to 110	12.1	15.0
BC20098	Solids, Dissolved	mg/L	1.00	25.0			446	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 11/2/22 08:35
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 12:57		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/22 10:56	11/9/22 12:57		1.015	2.03	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 12:57		1.015	0.237	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/22 10:56	11/9/22 12:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 12:57		1.015	1.34	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 12:57		1	16.3	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 12:57		1.015	7.61	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 12:57		1.015	4.57	mg/L	0.03045	0.406	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:17		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:17		1.015	2.18	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 13:17		1.015	0.258	mg/L	0.008120	0.0406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:17		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:17		1.015	1.35	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:17		1	16.9	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:17		1.015	7.91	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:17		1.015	4.40	mg/L	0.03045	0.406	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 15:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 15:17		1.015	0.0121	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 15:17		1.015	0.00151	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 15:17		1.015	0.0201	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 15:17		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 15:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 15:17		1.015	0.000206	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 15:17		1.015	0.00497	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 15:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 15:17		1.015	0.233	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 15:17		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 15:17		1.015	0.928	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 11/2/22 08:35
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 15:17		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 15:17		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	0.00133	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	0.0196	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	0.00463	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	0.218	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	0.845	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 16:02		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/7/22 18:06	11/7/22 22:05		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:56	11/4/22 11:56		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 15:10	11/15/22 16:08		1	9.44	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	41.3	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	9.44	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 15:27	11/4/22 15:27		1	1.66	mg/L	1.00	2	J

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-2

Location Code: WMWBARAP
Collected: 11/2/22 08:35
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20092

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:23	11/8/22 11:23		1	8.49	mg/L	0.50	1	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:24	11/8/22 15:24		1	0.0711	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:20	11/10/22 10:20		1	1.17	mg/L	0.6	2	J
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/2/22 08:31	11/2/22 08:31			49.85	uS/cm			FA
pH	11/2/22 08:31	11/2/22 08:31			5.68	SU			FA
Temperature	11/2/22 08:31	11/2/22 08:31			21.47	C			FA
Turbidity	11/2/22 08:31	11/2/22 08:31			0.88	NTU			FA
Sulfide	11/2/22 08:31	11/2/22 08:31			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 08:35

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BC20092

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20098	Aluminum, Total	mg/L	0.000336	0.010	0.100	0.109	0.106	0.0978	0.0850 to 0.115	94.9	70.0 to 130	2.79	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20098	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.103	0.101	0.0988	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20098	Arsenic, Total	mg/L	0.0000043	0.000176	0.100	0.165	0.161	0.101	0.0850 to 0.115	98.6	70.0 to 130	2.45	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20098	Barium, Total	mg/L	-0.0000087	0.00100	0.100	0.333	0.326	0.101	0.0850 to 0.115	103	70.0 to 130	2.12	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20098	Beryllium, Total	mg/L	0.0000007	0.000880	0.100	0.0941	0.0960	0.0932	0.0850 to 0.115	94.1	70.0 to 130	2.00	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20098	Boron, Total	mg/L	0.000432	0.0650	1.00	1.34	1.34	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20098	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0996	0.0982	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20098	Calcium, Total	mg/L	0.00342	0.152	5.00	22.3	22.2	4.93	4.25 to 5.75	94.0	70.0 to 130	0.449	20.0
BC20098	Chloride	mg/L	0.041	1.00	160	217	221	9.74	9.00 to 11.0	107	80.0 to 120	1.83	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20098	Chromium, Total	mg/L	0.0000123	0.000440	0.100	0.0982	0.101	0.105	0.0850 to 0.115	97.4	70.0 to 130	2.81	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20098	Cobalt, Total	mg/L	0.0000027	0.000147	0.100	0.110	0.113	0.109	0.0850 to 0.115	104	70.0 to 130	2.69	20.0
BC20098	Fluoride	mg/L	0.00833	0.125	2.50	2.72	2.69	2.51	2.25 to 2.75	104	80.0 to 120	1.11	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20098	Iron, Total	mg/L	-0.000126	0.0176	0.2	113	114	0.202	0.170 to 0.230	-500	70.0 to 130	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/22 08:35
Customer ID:
Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BC20092

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20098	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.108	0.109	0.106	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20098	Lithium, Total	mg/L	0.000018	0.0154	0.200	0.204	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20098	Magnesium, Total	mg/L	0.00134	0.0462	5.00	21.0	21.0	5.01	4.25 to 5.75	92.0	70.0 to 130	0.00	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20098	Manganese, Total	mg/L	0.0000168	0.00033	0.100	0.310	0.322	0.109	0.0850 to 0.115	99.0	70.0 to 130	3.80	20.0
BC20098	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00408	0.00407	0.00413	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20098	Molybdenum, Total	mg/L	0.000014	0.0002	0.100	0.0966	0.0991	0.100	0.0850 to 0.115	95.6	70.0 to 130	2.55	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20098	Potassium, Total	mg/L	0.0239	0.367	10.0	12.5	12.6	10.3	8.50 to 11.5	100	70.0 to 130	0.797	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20098	Selenium, Total	mg/L	-0.0000147	0.00100	0.100	0.0984	0.102	0.103	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20098	Silicon, Total	mg/L	-0.000475	0.0440	1.00	11.9	11.9	0.999	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20098	Sodium, Total	mg/L	0.0163	0.0660	5.00	73.7	72.0	5.08	4.25 to 5.75	32.0	70.0 to 130	2.33	20.0
BC20098	Sulfate	mg/L	-0.0115	2.0	20.0	35.4	35.9	19.7	18.0 to 22.0	77.5	80.0 to 120	1.40	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20098	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BC20098	Total Organic Carbon	mg/L	0.315	1.00	10.0	34.1	35.3	9.41		67.0	80.0 to 120	3.46	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 08:35

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-2

Laboratory ID Number: BC20092

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC20093	Alkalinity to pH 4.5	mg CaCO3/L					303	50.7	45.0 to 55.0			0.331	10.0
BC20098	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.00	0.341	2.02	1.80 to 2.20	81.4	90.0 to 110	8.96	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 11/2/22 10:43
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20093

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 13:00		1.015	1.92	mg/L	0.030000	0.1015		
* Calcium, Total	11/8/22 10:56	11/9/22 13:00		1.015	38.9	mg/L	0.070035	0.406		
* Iron, Total	11/8/22 10:56	11/9/22 15:10		101.5	134	mg/L	0.8120	4.06		
* Lithium, Total	11/8/22 10:56	11/9/22 13:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/22 10:56	11/9/22 13:00		1.015	12.3	mg/L	0.021315	0.406		
Silica, Total (calc.)	11/8/22 10:56	11/9/22 13:00		1	24.0	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 13:00		1.015	11.2	mg/L	0.02030	0.25375		
* Sodium, Total	11/8/22 10:56	11/9/22 13:00		1.015	24.9	mg/L	0.03045	0.406		
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:20		1.015	1.95	mg/L	0.030000	0.1015		
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:20		1.015	40.5	mg/L	0.070035	0.406		
* Iron, Dissolved	11/4/22 10:13	11/8/22 14:55		101.5	142	mg/L	0.8120	4.06		
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:20		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:20		1.015	12.2	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:20		1	24.2	mg/L				
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:20		1.015	11.3	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/4/22 10:13	11/8/22 13:20		1.015	25.3	mg/L	0.03045	0.406		
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 15:21		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 15:21		1.015	0.0753	mg/L	0.006090	0.01015		
* Arsenic, Total	11/8/22 10:56	11/8/22 15:21		1.015	0.0682	mg/L	0.000081	0.000203		
* Barium, Total	11/8/22 10:56	11/8/22 15:21		1.015	0.279	mg/L	0.000508	0.001015		
* Beryllium, Total	11/8/22 10:56	11/8/22 15:21		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 15:21		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 15:21		1.015	0.00371	mg/L	0.000203	0.001015		
* Cobalt, Total	11/8/22 10:56	11/8/22 15:21		1.015	0.00102	mg/L	0.000068	0.000203		
* Lead, Total	11/8/22 10:56	11/8/22 15:21		1.015	0.0000922	mg/L	0.000068	0.000203	J	
* Manganese, Total	11/8/22 10:56	11/8/22 15:21		1.015	0.871	mg/L	0.000152	0.001015		
* Molybdenum, Total	11/8/22 10:56	11/8/22 15:21		1.015	Not Detected	mg/L	0.000102	0.000203	U	
* Potassium, Total	11/8/22 10:56	11/8/22 15:21		1.015	2.16	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 11/2/22 10:43
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20093

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 15:21		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 15:21		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	0.0116	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	0.0703	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	0.271	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	0.00314	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	0.000872	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	0.819	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	1.95	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 16:05		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/7/22 18:06	11/7/22 22:09		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 11:58	11/4/22 11:58		1	0.384	mg/L as N	0.20	0.3	
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 15:10	11/15/22 16:08		1	302	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/8/22 11:45	11/9/22 13:47		1	404	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	302	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 15:48	11/4/22 15:48		1	21.8	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1

Location Code: WMWBARAP
Collected: 11/2/22 10:43
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20093

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:34	11/8/22 11:34		2	25.1	mg/L	1.00	2	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:25	11/8/22 15:25		1	0.0665	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:30	11/10/22 10:30		1	12.1	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: TJD							
Conductivity	11/2/22 10:40	11/2/22 10:40			782.74	uS/cm			FA
pH	11/2/22 10:40	11/2/22 10:40			5.56	SU			FA
Temperature	11/2/22 10:40	11/2/22 10:40			21.95	C			FA
Turbidity	11/2/22 10:40	11/2/22 10:40			4.28	NTU			FA
Sulfide	11/2/22 10:40	11/2/22 10:40			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 10:43

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BC20093

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20098	Aluminum, Total	mg/L	0.000336	0.010	0.100	0.109	0.106	0.0978	0.0850 to 0.115	94.9	70.0 to 130	2.79	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20098	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.103	0.101	0.0988	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20098	Arsenic, Total	mg/L	0.0000043	0.000176	0.100	0.165	0.161	0.101	0.0850 to 0.115	98.6	70.0 to 130	2.45	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20098	Barium, Total	mg/L	-0.0000087	0.00100	0.100	0.333	0.326	0.101	0.0850 to 0.115	103	70.0 to 130	2.12	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20098	Beryllium, Total	mg/L	0.0000007	0.000880	0.100	0.0941	0.0960	0.0932	0.0850 to 0.115	94.1	70.0 to 130	2.00	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20098	Boron, Total	mg/L	0.000432	0.0650	1.00	1.34	1.34	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20098	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0996	0.0982	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20098	Calcium, Total	mg/L	0.00342	0.152	5.00	22.3	22.2	4.93	4.25 to 5.75	94.0	70.0 to 130	0.449	20.0
BC20098	Chloride	mg/L	0.041	1.00	160	217	221	9.74	9.00 to 11.0	107	80.0 to 120	1.83	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20098	Chromium, Total	mg/L	0.0000123	0.000440	0.100	0.0982	0.101	0.105	0.0850 to 0.115	97.4	70.0 to 130	2.81	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20098	Cobalt, Total	mg/L	0.0000027	0.000147	0.100	0.110	0.113	0.109	0.0850 to 0.115	104	70.0 to 130	2.69	20.0
BC20098	Fluoride	mg/L	0.00833	0.125	2.50	2.72	2.69	2.51	2.25 to 2.75	104	80.0 to 120	1.11	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20098	Iron, Total	mg/L	-0.000126	0.0176	0.2	113	114	0.202	0.170 to 0.230	-500	70.0 to 130	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 10:43

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BC20093

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20098	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.108	0.109	0.106	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20098	Lithium, Total	mg/L	0.000018	0.0154	0.200	0.204	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20098	Magnesium, Total	mg/L	0.00134	0.0462	5.00	21.0	21.0	5.01	4.25 to 5.75	92.0	70.0 to 130	0.00	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20098	Manganese, Total	mg/L	0.0000168	0.00033	0.100	0.310	0.322	0.109	0.0850 to 0.115	99.0	70.0 to 130	3.80	20.0
BC20098	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00408	0.00407	0.00413	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20098	Molybdenum, Total	mg/L	0.000014	0.0002	0.100	0.0966	0.0991	0.100	0.0850 to 0.115	95.6	70.0 to 130	2.55	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20098	Potassium, Total	mg/L	0.0239	0.367	10.0	12.5	12.6	10.3	8.50 to 11.5	100	70.0 to 130	0.797	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20098	Selenium, Total	mg/L	-0.0000147	0.00100	0.100	0.0984	0.102	0.103	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20098	Silicon, Total	mg/L	-0.000475	0.0440	1.00	11.9	11.9	0.999	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20098	Sodium, Total	mg/L	0.0163	0.0660	5.00	73.7	72.0	5.08	4.25 to 5.75	32.0	70.0 to 130	2.33	20.0
BC20098	Sulfate	mg/L	-0.0115	2.0	20.0	35.4	35.9	19.7	18.0 to 22.0	77.5	80.0 to 120	1.40	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20098	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BC20098	Total Organic Carbon	mg/L	0.315	1.00	10.0	34.1	35.3	9.41		67.0	80.0 to 120	3.46	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 10:43

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-1

Laboratory ID Number: BC20093

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Prec Limit
BC20093	Alkalinity to pH 4.5	mg CaCO3/L					303	50.7	45.0 to 55.0			0.331	10.0
BC20098	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.00	0.341	2.02	1.80 to 2.20	81.4	90.0 to 110	8.96	15.0
BC20098	Solids, Dissolved	mg/L	1.00	25.0			446	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 11/1/22 13:58
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20094

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 13:03		1.015	0.0424	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 13:03		1.015	3.50	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 13:03		1.015	0.309	mg/L	0.008120	0.0406	
* Lithium, Total	11/8/22 10:56	11/9/22 13:03		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 13:03		1.015	2.20	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 13:03		1	14.7	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 13:03		1.015	6.85	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 15:14		10.15	80.6	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:23		1.015	0.0467	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:23		1.015	3.76	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 13:23		1.015	0.319	mg/L	0.008120	0.0406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:23		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:23		1.015	2.20	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:23		1	15.4	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:23		1.015	7.19	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 14:59		10.15	70.3	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 15:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 15:25		1.015	0.0179	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 15:25		1.015	0.000464	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 15:25		1.015	0.0843	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 15:25		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 15:25		1.015	0.0000715	mg/L	0.000068	0.000203	J
* Chromium, Total	11/8/22 10:56	11/8/22 15:25		1.015	0.000558	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 15:25		1.015	0.00928	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 15:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 15:25		1.015	0.130	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 15:25		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 15:25		1.015	2.54	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 11/1/22 13:58
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20094

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 15:25		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 15:25		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	0.0149	mg/L	0.006090	0.01015	
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	0.000468	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	0.0797	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	0.0000888	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	0.00874	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	0.124	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	2.35	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 16:09		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/7/22 18:06	11/7/22 22:13		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 12:00	11/4/22 12:00		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 11:35	11/15/22 12:17		1	15.2	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	220	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	15.2	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 16:03	11/4/22 16:03		1	4.61	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-1V

Location Code: WMWBARAP
Collected: 11/1/22 13:58
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20094

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:35	11/8/22 11:35		10	98.5	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:26	11/8/22 15:26		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:22	11/10/22 10:22		1	23.0	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/22 13:55	11/1/22 13:55			437.28	uS/cm			FA
pH	11/1/22 13:55	11/1/22 13:55			5.21	SU			FA
Temperature	11/1/22 13:55	11/1/22 13:55			21.90	C			FA
Turbidity	11/1/22 13:55	11/1/22 13:55			0.9	NTU			FA
Sulfide	11/1/22 13:55	11/1/22 13:55			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 13:58

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BC20094

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20098	Aluminum, Total	mg/L	0.000336	0.010	0.100	0.109	0.106	0.0978	0.0850 to 0.115	94.9	70.0 to 130	2.79	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20098	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.103	0.101	0.0988	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20098	Arsenic, Total	mg/L	0.0000043	0.000176	0.100	0.165	0.161	0.101	0.0850 to 0.115	98.6	70.0 to 130	2.45	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20098	Barium, Total	mg/L	-0.0000087	0.00100	0.100	0.333	0.326	0.101	0.0850 to 0.115	103	70.0 to 130	2.12	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20098	Beryllium, Total	mg/L	0.0000007	0.000880	0.100	0.0941	0.0960	0.0932	0.0850 to 0.115	94.1	70.0 to 130	2.00	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20098	Boron, Total	mg/L	0.000432	0.0650	1.00	1.34	1.34	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20098	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0996	0.0982	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20098	Calcium, Total	mg/L	0.00342	0.152	5.00	22.3	22.2	4.93	4.25 to 5.75	94.0	70.0 to 130	0.449	20.0
BC20098	Chloride	mg/L	0.041	1.00	160	217	221	9.74	9.00 to 11.0	107	80.0 to 120	1.83	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20098	Chromium, Total	mg/L	0.0000123	0.000440	0.100	0.0982	0.101	0.105	0.0850 to 0.115	97.4	70.0 to 130	2.81	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20098	Cobalt, Total	mg/L	0.0000027	0.000147	0.100	0.110	0.113	0.109	0.0850 to 0.115	104	70.0 to 130	2.69	20.0
BC20098	Fluoride	mg/L	0.00833	0.125	2.50	2.72	2.69	2.51	2.25 to 2.75	104	80.0 to 120	1.11	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20098	Iron, Total	mg/L	-0.000126	0.0176	0.2	113	114	0.202	0.170 to 0.230	-500	70.0 to 130	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 13:58

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BC20094

Sample	Analysis	Units	MB				Standard			Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20098	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.108	0.109	0.106	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20098	Lithium, Total	mg/L	0.000018	0.0154	0.200	0.204	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20098	Magnesium, Total	mg/L	0.00134	0.0462	5.00	21.0	21.0	5.01	4.25 to 5.75	92.0	70.0 to 130	0.00	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20098	Manganese, Total	mg/L	0.0000168	0.00033	0.100	0.310	0.322	0.109	0.0850 to 0.115	99.0	70.0 to 130	3.80	20.0
BC20098	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00408	0.00407	0.00413	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20098	Molybdenum, Total	mg/L	0.000014	0.0002	0.100	0.0966	0.0991	0.100	0.0850 to 0.115	95.6	70.0 to 130	2.55	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20098	Potassium, Total	mg/L	0.0239	0.367	10.0	12.5	12.6	10.3	8.50 to 11.5	100	70.0 to 130	0.797	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20098	Selenium, Total	mg/L	-0.0000147	0.00100	0.100	0.0984	0.102	0.103	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20098	Silicon, Total	mg/L	-0.000475	0.0440	1.00	11.9	11.9	0.999	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20098	Sodium, Total	mg/L	0.0163	0.0660	5.00	73.7	72.0	5.08	4.25 to 5.75	32.0	70.0 to 130	2.33	20.0
BC20098	Sulfate	mg/L	-0.0115	2.0	20.0	35.4	35.9	19.7	18.0 to 22.0	77.5	80.0 to 120	1.40	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20098	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BC20098	Total Organic Carbon	mg/L	0.315	1.00	10.0	34.1	35.3	9.41		67.0	80.0 to 120	3.46	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 13:58

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-1V

Laboratory ID Number: BC20094

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard Standard	Standard Limit	Rec	Limit	Prec	Limit
BC20096	Alkalinity to pH 4.5	mg CaCO3/L					174	50.7	45.0 to 55.0			1.16	10.0
BC20098	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.00	0.341	2.02	1.80 to 2.20	81.4	90.0 to 110	8.96	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 11/1/22 14:44
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20095

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Total	11/8/22 10:56	11/9/22 13:06		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Total	11/8/22 10:56	11/9/22 13:06		1.015	2.24	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 15:17		10.15	4.85	mg/L	0.08120	0.406	
* Lithium, Total	11/8/22 10:56	11/9/22 13:06		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 13:06		1.015	2.08	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 13:06		1	13.4	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 13:06		1.015	6.28	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 15:17		10.15	57.2	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB			Preparation Method: EPA 1638			
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:27		1.015	Not Detected	mg/L	0.030000	0.1015	U
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:27		1.015	2.43	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:03		10.15	4.60	mg/L	0.08120	0.406	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:27		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:27		1.015	2.11	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:27		1	14.1	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:27		1.015	6.61	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 15:03		10.15	51.1	mg/L	0.3045	4.06	
Analytical Method: EPA 200.8			Analyst: DLJ			Preparation Method: EPA 1638			
* Antimony, Total	11/8/22 10:56	11/8/22 15:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 15:28		1.015	0.00898	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 15:28		1.015	0.00102	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 15:28		1.015	0.0656	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 15:28		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 15:28		1.015	0.0000697	mg/L	0.000068	0.000203	J
* Chromium, Total	11/8/22 10:56	11/8/22 15:28		1.015	0.000275	mg/L	0.000203	0.001015	J
* Cobalt, Total	11/8/22 10:56	11/8/22 15:28		1.015	0.0185	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 15:28		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 15:28		1.015	0.197	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 15:28		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 15:28		1.015	1.99	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 11/1/22 14:44
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20095

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 15:28		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 15:28		1.015	0.000112	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	0.000989	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	0.0625	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	0.0173	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	0.182	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	1.80	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 16:12		1.015	0.0000814	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/7/22 18:06	11/7/22 22:17		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 12:01	11/4/22 12:01		1	Not Detected	mg/L as N	0.20	0.3	U
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 11:35	11/15/22 12:17		1	17.1	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	184	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	17.1	mg CaCO3/L		1	
Carbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 16:22	11/4/22 16:22		1	5.98	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-16V

Location Code: WMWBARAP
Collected: 11/1/22 14:44
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20095

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:36	11/8/22 11:36		10	70.9	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:27	11/8/22 15:27		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:23	11/10/22 10:23		1	29.9	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/22 14:41	11/1/22 14:41			353.95	uS/cm			FA
pH	11/1/22 14:41	11/1/22 14:41			5.13	SU			FA
Temperature	11/1/22 14:41	11/1/22 14:41			21.97	C			FA
Turbidity	11/1/22 14:41	11/1/22 14:41			0.68	NTU			FA
Sulfide	11/1/22 14:41	11/1/22 14:41			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 14:44
Customer ID:
Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BC20095

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20098	Aluminum, Total	mg/L	0.000336	0.010	0.100	0.109	0.106	0.0978	0.0850 to 0.115	94.9	70.0 to 130	2.79	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20098	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.103	0.101	0.0988	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20098	Arsenic, Total	mg/L	0.0000043	0.000176	0.100	0.165	0.161	0.101	0.0850 to 0.115	98.6	70.0 to 130	2.45	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20098	Barium, Total	mg/L	-0.0000087	0.00100	0.100	0.333	0.326	0.101	0.0850 to 0.115	103	70.0 to 130	2.12	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20098	Beryllium, Total	mg/L	0.0000007	0.000880	0.100	0.0941	0.0960	0.0932	0.0850 to 0.115	94.1	70.0 to 130	2.00	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20098	Boron, Total	mg/L	0.000432	0.0650	1.00	1.34	1.34	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20098	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0996	0.0982	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20098	Calcium, Total	mg/L	0.00342	0.152	5.00	22.3	22.2	4.93	4.25 to 5.75	94.0	70.0 to 130	0.449	20.0
BC20098	Chloride	mg/L	0.041	1.00	160	217	221	9.74	9.00 to 11.0	107	80.0 to 120	1.83	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20098	Chromium, Total	mg/L	0.0000123	0.000440	0.100	0.0982	0.101	0.105	0.0850 to 0.115	97.4	70.0 to 130	2.81	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20098	Cobalt, Total	mg/L	0.0000027	0.000147	0.100	0.110	0.113	0.109	0.0850 to 0.115	104	70.0 to 130	2.69	20.0
BC20098	Fluoride	mg/L	0.00833	0.125	2.50	2.72	2.69	2.51	2.25 to 2.75	104	80.0 to 120	1.11	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20098	Iron, Total	mg/L	-0.000126	0.0176	0.2	113	114	0.202	0.170 to 0.230	-500	70.0 to 130	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 14:44

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BC20095

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20098	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.108	0.109	0.106	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20098	Lithium, Total	mg/L	0.000018	0.0154	0.200	0.204	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20098	Magnesium, Total	mg/L	0.00134	0.0462	5.00	21.0	21.0	5.01	4.25 to 5.75	92.0	70.0 to 130	0.00	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20098	Manganese, Total	mg/L	0.0000168	0.00033	0.100	0.310	0.322	0.109	0.0850 to 0.115	99.0	70.0 to 130	3.80	20.0
BC20098	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00408	0.00407	0.00413	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20098	Molybdenum, Total	mg/L	0.000014	0.0002	0.100	0.0966	0.0991	0.100	0.0850 to 0.115	95.6	70.0 to 130	2.55	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20098	Potassium, Total	mg/L	0.0239	0.367	10.0	12.5	12.6	10.3	8.50 to 11.5	100	70.0 to 130	0.797	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20098	Selenium, Total	mg/L	-0.0000147	0.00100	0.100	0.0984	0.102	0.103	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20098	Silicon, Total	mg/L	-0.000475	0.0440	1.00	11.9	11.9	0.999	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20098	Sodium, Total	mg/L	0.0163	0.0660	5.00	73.7	72.0	5.08	4.25 to 5.75	32.0	70.0 to 130	2.33	20.0
BC20098	Sulfate	mg/L	-0.0115	2.0	20.0	35.4	35.9	19.7	18.0 to 22.0	77.5	80.0 to 120	1.40	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20098	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BC20098	Total Organic Carbon	mg/L	0.315	1.00	10.0	34.1	35.3	9.41		67.0	80.0 to 120	3.46	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 14:44

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-16V

Laboratory ID Number: BC20095

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC20096	Alkalinity to pH 4.5	mg CaCO3/L					174	50.7	45.0 to 55.0			1.16	10.0
BC20098	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.00	0.341	2.02	1.80 to 2.20	81.4	90.0 to 110	8.96	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 11/1/22 15:31
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20096

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 13:09		1.015	0.0519	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 13:09		1.015	10.9	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/10/22 13:15		101.5	39.6	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 13:09		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 13:09		1.015	6.59	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 13:09		1	19.9	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 13:09		1.015	9.28	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 15:20		10.15	106	mg/L	0.3045	4.06	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 13:30		1.015	0.0708	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 13:30		1.015	11.9	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:06		10.15	36.7	mg/L	0.08120	0.406	RA
* Lithium, Dissolved	11/4/22 10:13	11/8/22 13:30		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 13:30		1.015	6.69	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 13:30		1	20.7	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 13:30		1.015	9.65	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 15:06		10.15	88.7	mg/L	0.3045	4.06	RA
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 15:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 15:32		1.015	0.0577	mg/L	0.006090	0.01015	
* Arsenic, Total	11/8/22 10:56	11/8/22 15:32		1.015	0.0174	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 15:32		1.015	0.0681	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 15:32		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 15:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Total	11/8/22 10:56	11/8/22 15:32		1.015	0.00317	mg/L	0.000203	0.001015	
* Cobalt, Total	11/8/22 10:56	11/8/22 15:32		1.015	0.00120	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 15:32		1.015	0.0000829	mg/L	0.000068	0.000203	J
* Manganese, Total	11/8/22 10:56	11/8/22 15:32		1.015	0.323	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 15:32		1.015	0.000643	mg/L	0.000102	0.000203	
* Potassium, Total	11/8/22 10:56	11/8/22 15:32		1.015	2.55	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 11/1/22 15:31
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20096

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 15:32		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 15:32		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	0.00713	mg/L	0.006090	0.01015	J
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	0.0162	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	0.0617	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	0.00267	mg/L	0.000203	0.001015	
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	0.00103	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	0.298	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	0.000452	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	2.29	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 16:16		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/7/22 18:06	11/7/22 22:21		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 12:01	11/4/22 12:01		1	0.200	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 11:35	11/15/22 12:17		1	172	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	347	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	172	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 11:35	11/15/22 12:17		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 16:36	11/4/22 16:36		1	18.8	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-14

Location Code: WMWBARAP
Collected: 11/1/22 15:31
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20096

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:38	11/8/22 11:38		10	53.1	mg/L	5.00	10	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:28	11/8/22 15:28		1	0.0685	mg/L	0.06	0.125	J
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:32	11/10/22 10:32		3	86.1	mg/L	1.8	6	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/1/22 15:28	11/1/22 15:28			586.92	uS/cm			FA
pH	11/1/22 15:28	11/1/22 15:28			5.93	SU			FA
Temperature	11/1/22 15:28	11/1/22 15:28			20.52	C			FA
Turbidity	11/1/22 15:28	11/1/22 15:28			1.8	NTU			FA
Sulfide	11/1/22 15:28	11/1/22 15:28			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/1/22 15:31
Customer ID:
Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BC20096

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20096	Aluminum, Dissolved	mg/L	-0.000421	0.010	0.100	0.0939	0.0940	0.0873	0.0850 to 0.115	86.8	70.0 to 130	0.106	20.0
BC20098	Aluminum, Total	mg/L	0.000336	0.010	0.100	0.109	0.106	0.0978	0.0850 to 0.115	94.9	70.0 to 130	2.79	20.0
BC20096	Antimony, Dissolved	mg/L	0.000219	0.00100	0.100	0.0953	0.0967	0.0889	0.0850 to 0.115	95.3	70.0 to 130	1.46	20.0
BC20098	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.103	0.101	0.0988	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC20096	Arsenic, Dissolved	mg/L	0.0000097	0.000176	0.100	0.109	0.111	0.0954	0.0850 to 0.115	92.8	70.0 to 130	1.82	20.0
BC20098	Arsenic, Total	mg/L	0.0000043	0.000176	0.100	0.165	0.161	0.101	0.0850 to 0.115	98.6	70.0 to 130	2.45	20.0
BC20096	Barium, Dissolved	mg/L	-0.0000181	0.00100	0.100	0.158	0.159	0.0931	0.0850 to 0.115	96.3	70.0 to 130	0.631	20.0
BC20098	Barium, Total	mg/L	-0.0000087	0.00100	0.100	0.333	0.326	0.101	0.0850 to 0.115	103	70.0 to 130	2.12	20.0
BC20096	Beryllium, Dissolved	mg/L	0.0000107	0.000880	0.100	0.101	0.102	0.0970	0.0850 to 0.115	101	70.0 to 130	0.985	20.0
BC20098	Beryllium, Total	mg/L	0.0000007	0.000880	0.100	0.0941	0.0960	0.0932	0.0850 to 0.115	94.1	70.0 to 130	2.00	20.0
BC20096	Boron, Dissolved	mg/L	0.00154	0.0650	1.00	1.11	1.11	1.01	0.850 to 1.15	104	70.0 to 130	0.00	20.0
BC20098	Boron, Total	mg/L	0.000432	0.0650	1.00	1.34	1.34	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC20096	Cadmium, Dissolved	mg/L	0.0000000	0.000147	0.100	0.0992	0.0966	0.0960	0.0850 to 0.115	99.2	70.0 to 130	2.66	20.0
BC20098	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0996	0.0982	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0
BC20096	Calcium, Dissolved	mg/L	-0.0111	0.152	5.00	16.7	16.8	5.08	4.25 to 5.75	96.0	70.0 to 130	0.597	20.0
BC20098	Calcium, Total	mg/L	0.00342	0.152	5.00	22.3	22.2	4.93	4.25 to 5.75	94.0	70.0 to 130	0.449	20.0
BC20098	Chloride	mg/L	0.041	1.00	160	217	221	9.74	9.00 to 11.0	107	80.0 to 120	1.83	20.0
BC20096	Chromium, Dissolved	mg/L	-0.0000372	0.000440	0.100	0.0968	0.0980	0.0964	0.0850 to 0.115	94.1	70.0 to 130	1.23	20.0
BC20098	Chromium, Total	mg/L	0.0000123	0.000440	0.100	0.0982	0.101	0.105	0.0850 to 0.115	97.4	70.0 to 130	2.81	20.0
BC20096	Cobalt, Dissolved	mg/L	-0.0000054	0.000147	0.100	0.0988	0.0992	0.0993	0.0850 to 0.115	97.8	70.0 to 130	0.404	20.0
BC20098	Cobalt, Total	mg/L	0.0000027	0.000147	0.100	0.110	0.113	0.109	0.0850 to 0.115	104	70.0 to 130	2.69	20.0
BC20098	Fluoride	mg/L	0.00833	0.125	2.50	2.72	2.69	2.51	2.25 to 2.75	104	80.0 to 120	1.11	20.0
BC20096	Iron, Dissolved	mg/L	-0.000332	0.0176	0.2	35.8	35.9	0.203	0.170 to 0.230	-450	70.0 to 130	0.279	20.0
BC20098	Iron, Total	mg/L	-0.000126	0.0176	0.2	113	114	0.202	0.170 to 0.230	-500	70.0 to 130	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 15:31

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BC20096

Sample	Analysis	Units	MB				Standard			Rec		Prec	
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit	Prec	
BC20096	Lead, Dissolved	mg/L	0.0000133	0.000147	0.100	0.0959	0.0962	0.0962	0.0850 to 0.115	95.9	70.0 to 130	0.312	20.0
BC20098	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.108	0.109	0.106	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BC20096	Lithium, Dissolved	mg/L	4.700E-06	0.0154	0.200	0.222	0.221	0.193	0.170 to 0.230	111	70.0 to 130	0.451	20.0
BC20098	Lithium, Total	mg/L	0.000018	0.0154	0.200	0.204	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BC20096	Magnesium, Dissolved	mg/L	0.00241	0.0462	5.00	11.7	11.7	5.02	4.25 to 5.75	100	70.0 to 130	0.00	20.0
BC20098	Magnesium, Total	mg/L	0.00134	0.0462	5.00	21.0	21.0	5.01	4.25 to 5.75	92.0	70.0 to 130	0.00	20.0
BC20096	Manganese, Dissolved	mg/L	0.0000362	0.00033	0.100	0.392	0.401	0.0986	0.0850 to 0.115	94.0	70.0 to 130	2.27	20.0
BC20098	Manganese, Total	mg/L	0.0000168	0.00033	0.100	0.310	0.322	0.109	0.0850 to 0.115	99.0	70.0 to 130	3.80	20.0
BC20098	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00408	0.00407	0.00413	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BC20096	Molybdenum, Dissolved	mg/L	-0.0000004	0.0002	0.100	0.0952	0.0952	0.0943	0.0850 to 0.115	94.7	70.0 to 130	0.00	20.0
BC20098	Molybdenum, Total	mg/L	0.000014	0.0002	0.100	0.0966	0.0991	0.100	0.0850 to 0.115	95.6	70.0 to 130	2.55	20.0
BC20096	Potassium, Dissolved	mg/L	0.00977	0.367	10.0	11.4	11.6	9.54	8.50 to 11.5	91.1	70.0 to 130	1.74	20.0
BC20098	Potassium, Total	mg/L	0.0239	0.367	10.0	12.5	12.6	10.3	8.50 to 11.5	100	70.0 to 130	0.797	20.0
BC20096	Selenium, Dissolved	mg/L	-0.0000510	0.00100	0.100	0.101	0.0987	0.0963	0.0850 to 0.115	101	70.0 to 130	2.30	20.0
BC20098	Selenium, Total	mg/L	-0.0000147	0.00100	0.100	0.0984	0.102	0.103	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC20096	Silicon, Dissolved	mg/L	-0.000297	0.0440	1.00	10.6	10.6	1.01	0.850 to 1.15	95.0	70.0 to 130	0.00	20.0
BC20098	Silicon, Total	mg/L	-0.000475	0.0440	1.00	11.9	11.9	0.999	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20096	Sodium, Dissolved	mg/L	0.000858	0.0660	5.00	91.3	90.2	5.00	4.25 to 5.75	52.0	70.0 to 130	1.21	20.0
BC20098	Sodium, Total	mg/L	0.0163	0.0660	5.00	73.7	72.0	5.08	4.25 to 5.75	32.0	70.0 to 130	2.33	20.0
BC20098	Sulfate	mg/L	-0.0115	2.0	20.0	35.4	35.9	19.7	18.0 to 22.0	77.5	80.0 to 120	1.40	20.0
BC20096	Thallium, Dissolved	mg/L	-0.0000020	0.000147	0.100	0.0940	0.0944	0.0966	0.0850 to 0.115	94.0	70.0 to 130	0.425	20.0
BC20098	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BC20098	Total Organic Carbon	mg/L	0.315	1.00	10.0	34.1	35.3	9.41		67.0	80.0 to 120	3.46	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/1/22 15:31

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-14

Laboratory ID Number: BC20096

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Limit	Prec	Limit
BC20096	Alkalinity to pH 4.5	mg CaCO3/L					174	50.7	45.0 to 55.0			1.16	10.0
BC20098	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.00	0.341	2.02	1.80 to 2.20	81.4	90.0 to 110	8.96	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 11/2/22 08:27
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20097

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Total	11/8/22 10:56	11/9/22 13:12		1.015	0.0330	mg/L	0.030000	0.1015	J
* Calcium, Total	11/8/22 10:56	11/9/22 13:12		1.015	7.84	mg/L	0.070035	0.406	
* Iron, Total	11/8/22 10:56	11/9/22 15:23		101.5	53.2	mg/L	0.8120	4.06	
* Lithium, Total	11/8/22 10:56	11/9/22 13:12		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Total	11/8/22 10:56	11/9/22 13:12		1.015	5.19	mg/L	0.021315	0.406	
Silica, Total (calc.)	11/8/22 10:56	11/9/22 13:12		1	17.1	mg/L			
Silicon, Total	11/8/22 10:56	11/9/22 13:12		1.015	7.97	mg/L	0.02030	0.25375	
* Sodium, Total	11/8/22 10:56	11/9/22 15:23		101.5	76.3	mg/L	3.045	40.6	
Analytical Method: EPA 200.7			Analyst: ABB		Preparation Method: EPA 1638				
* Boron, Dissolved	11/4/22 10:13	11/8/22 14:57		1.015	0.0344	mg/L	0.030000	0.1015	J
* Calcium, Dissolved	11/4/22 10:13	11/8/22 14:57		1.015	7.49	mg/L	0.070035	0.406	
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:23		101.5	53.7	mg/L	0.8120	4.06	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 14:57		1.015	Not Detected	mg/L	0.007105	0.01999956	U
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 14:57		1.015	5.30	mg/L	0.021315	0.406	
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 14:57		1	17.2	mg/L			
Silicon, Dissolved	11/4/22 10:13	11/8/22 14:57		1.015	8.04	mg/L	0.02030	0.25375	
* Sodium, Dissolved	11/4/22 10:13	11/8/22 15:23		101.5	75.5	mg/L	3.045	40.6	
Analytical Method: EPA 200.8			Analyst: DLJ		Preparation Method: EPA 1638				
* Antimony, Total	11/8/22 10:56	11/8/22 15:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Total	11/8/22 10:56	11/8/22 15:35		1.015	0.00648	mg/L	0.006090	0.01015	J
* Arsenic, Total	11/8/22 10:56	11/8/22 15:35		1.015	0.0403	mg/L	0.000081	0.000203	
* Barium, Total	11/8/22 10:56	11/8/22 15:35		1.015	0.153	mg/L	0.000508	0.001015	
* Beryllium, Total	11/8/22 10:56	11/8/22 15:35		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Total	11/8/22 10:56	11/8/22 15:35		1.015	0.000100	mg/L	0.000068	0.000203	J
* Chromium, Total	11/8/22 10:56	11/8/22 15:35		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Total	11/8/22 10:56	11/8/22 15:35		1.015	0.0748	mg/L	0.000068	0.000203	
* Lead, Total	11/8/22 10:56	11/8/22 15:35		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Total	11/8/22 10:56	11/8/22 15:35		1.015	1.05	mg/L	0.000152	0.001015	
* Molybdenum, Total	11/8/22 10:56	11/8/22 15:35		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Total	11/8/22 10:56	11/8/22 15:35		1.015	3.20	mg/L	0.169505	0.5075	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 11/2/22 08:27
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20097

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 15:35		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 15:35		1.015	0.000133	mg/L	0.000068	0.000203	J
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	0.0365	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	0.139	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	0.0000812	mg/L	0.000068	0.000203	J
* Chromium, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	Not Detected	mg/L	0.000203	0.001015	U
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	0.0697	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	0.991	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	Not Detected	mg/L	0.000102	0.000203	U
* Potassium, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	2.92	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 16:45		1.015	0.000104	mg/L	0.000068	0.000203	J
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/7/22 18:06	11/7/22 22:25		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 12:02	11/4/22 12:02		1	0.268	mg/L as N	0.20	0.3	J
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 15:10	11/15/22 16:08		1	28.7	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/4/22 11:30	11/8/22 14:00		1	358	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	28.7	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 16:54	11/4/22 16:54		1	5.73	mg/L	1.00	2	

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-15V

Location Code: WMWBARAP
Collected: 11/2/22 08:27
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20097

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:39	11/8/22 11:39		25	179	mg/L	12.50	25	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:30	11/8/22 15:30		1	Not Detected	mg/L	0.06	0.125	U
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:26	11/10/22 10:26		1	6.26	mg/L	0.6	2	
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/2/22 08:24	11/2/22 08:24			829.25	uS/cm			FA
pH	11/2/22 08:24	11/2/22 08:24			5.38	SU			FA
Temperature	11/2/22 08:24	11/2/22 08:24			20.62	C			FA
Turbidity	11/2/22 08:24	11/2/22 08:24			3.2	NTU			FA
Sulfide	11/2/22 08:24	11/2/22 08:24			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/22 08:27
Customer ID:
Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BC20097

Sample	Analysis	Units	MB	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
				Limit					Standard	Limit	Rec	Limit		
BC20098	Aluminum, Dissolved	mg/L	-0.000522	0.010	0.100	0.0915	0.0924	0.0899	0.0850 to 0.115	91.5	70.0 to 130	0.979	20.0	
BC20098	Aluminum, Total	mg/L	0.000336	0.010	0.100	0.109	0.106	0.0978	0.0850 to 0.115	94.9	70.0 to 130	2.79	20.0	
BC20098	Antimony, Dissolved	mg/L	0.000234	0.00100	0.100	0.0949	0.0957	0.0923	0.0850 to 0.115	94.9	70.0 to 130	0.839	20.0	
BC20098	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.103	0.101	0.0988	0.0850 to 0.115	103	70.0 to 130	1.96	20.0	
BC20098	Arsenic, Dissolved	mg/L	0.0000231	0.000176	0.100	0.163	0.161	0.0967	0.0850 to 0.115	94.9	70.0 to 130	1.23	20.0	
BC20098	Arsenic, Total	mg/L	0.0000043	0.000176	0.100	0.165	0.161	0.101	0.0850 to 0.115	98.6	70.0 to 130	2.45	20.0	
BC20098	Barium, Dissolved	mg/L	0.0000254	0.00100	0.100	0.332	0.326	0.0962	0.0850 to 0.115	103	70.0 to 130	1.82	20.0	
BC20098	Barium, Total	mg/L	-0.0000087	0.00100	0.100	0.333	0.326	0.101	0.0850 to 0.115	103	70.0 to 130	2.12	20.0	
BC20098	Beryllium, Dissolved	mg/L	0.0000108	0.000880	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0	
BC20098	Beryllium, Total	mg/L	0.0000007	0.000880	0.100	0.0941	0.0960	0.0932	0.0850 to 0.115	94.1	70.0 to 130	2.00	20.0	
BC20098	Boron, Dissolved	mg/L	-0.00127	0.0650	1.00	1.37	1.35	1.00	0.850 to 1.15	103	70.0 to 130	1.47	20.0	
BC20098	Boron, Total	mg/L	0.000432	0.0650	1.00	1.34	1.34	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0	
BC20098	Cadmium, Dissolved	mg/L	0.0000111	0.000147	0.100	0.0999	0.0960	0.101	0.0850 to 0.115	99.9	70.0 to 130	3.98	20.0	
BC20098	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0996	0.0982	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0	
BC20098	Calcium, Dissolved	mg/L	-0.0143	0.152	5.00	21.6	20.9	4.64	4.25 to 5.75	92.0	70.0 to 130	3.29	20.0	
BC20098	Calcium, Total	mg/L	0.00342	0.152	5.00	22.3	22.2	4.93	4.25 to 5.75	94.0	70.0 to 130	0.449	20.0	
BC20098	Chloride	mg/L	0.041	1.00	160	217	221	9.74	9.00 to 11.0	107	80.0 to 120	1.83	20.0	
BC20098	Chromium, Dissolved	mg/L	-0.000105	0.000440	0.100	0.0946	0.0960	0.100	0.0850 to 0.115	93.9	70.0 to 130	1.47	20.0	
BC20098	Chromium, Total	mg/L	0.0000123	0.000440	0.100	0.0982	0.101	0.105	0.0850 to 0.115	97.4	70.0 to 130	2.81	20.0	
BC20098	Cobalt, Dissolved	mg/L	-0.0000058	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	98.6	70.0 to 130	0.957	20.0	
BC20098	Cobalt, Total	mg/L	0.0000027	0.000147	0.100	0.110	0.113	0.109	0.0850 to 0.115	104	70.0 to 130	2.69	20.0	
BC20098	Fluoride	mg/L	0.00833	0.125	2.50	2.72	2.69	2.51	2.25 to 2.75	104	80.0 to 120	1.11	20.0	
BC20098	Iron, Dissolved	mg/L	-0.000066	0.0176	0.2	115	113	0.196	0.170 to 0.230	1000	70.0 to 130	1.75	20.0	
BC20098	Iron, Total	mg/L	-0.000126	0.0176	0.2	113	114	0.202	0.170 to 0.230	-500	70.0 to 130	0.881	20.0	

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/22 08:27
Customer ID:
Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BC20097

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20098	Lead, Dissolved	mg/L	0.0000158	0.000147	0.100	0.0961	0.0942	0.0986	0.0850 to 0.115	96.1	70.0 to 130	2.00	20.0
BC20098	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.108	0.109	0.106	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BC20098	Lithium, Dissolved	mg/L	0.000016	0.0154	0.200	0.214	0.215	0.209	0.170 to 0.230	107	70.0 to 130	0.466	20.0
BC20098	Lithium, Total	mg/L	0.000018	0.0154	0.200	0.204	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BC20098	Magnesium, Dissolved	mg/L	-0.0105	0.0462	5.00	21.5	21.4	5.10	4.25 to 5.75	98.0	70.0 to 130	0.466	20.0
BC20098	Magnesium, Total	mg/L	0.00134	0.0462	5.00	21.0	21.0	5.01	4.25 to 5.75	92.0	70.0 to 130	0.00	20.0
BC20098	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.298	0.302	0.102	0.0850 to 0.115	92.0	70.0 to 130	1.33	20.0
BC20098	Manganese, Total	mg/L	0.0000168	0.00033	0.100	0.310	0.322	0.109	0.0850 to 0.115	99.0	70.0 to 130	3.80	20.0
BC20098	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00408	0.00407	0.00413	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BC20098	Molybdenum, Dissolved	mg/L	-0.0000006	0.0002	0.100	0.0963	0.0943	0.0979	0.0850 to 0.115	95.2	70.0 to 130	2.10	20.0
BC20098	Molybdenum, Total	mg/L	0.000014	0.0002	0.100	0.0966	0.0991	0.100	0.0850 to 0.115	95.6	70.0 to 130	2.55	20.0
BC20098	Potassium, Dissolved	mg/L	-0.0104	0.367	10.0	11.7	11.8	9.78	8.50 to 11.5	93.4	70.0 to 130	0.851	20.0
BC20098	Potassium, Total	mg/L	0.0239	0.367	10.0	12.5	12.6	10.3	8.50 to 11.5	100	70.0 to 130	0.797	20.0
BC20098	Selenium, Dissolved	mg/L	0.0000026	0.00100	0.100	0.101	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20098	Selenium, Total	mg/L	-0.0000147	0.00100	0.100	0.0984	0.102	0.103	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC20098	Silicon, Dissolved	mg/L	-0.000470	0.0440	1.00	12.0	11.9	0.995	0.850 to 1.15	100	70.0 to 130	0.837	20.0
BC20098	Silicon, Total	mg/L	-0.000475	0.0440	1.00	11.9	11.9	0.999	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20098	Sodium, Dissolved	mg/L	0.0147	0.0660	5.00	76.0	73.8	5.19	4.25 to 5.75	140	70.0 to 130	2.94	20.0
BC20098	Sodium, Total	mg/L	0.0163	0.0660	5.00	73.7	72.0	5.08	4.25 to 5.75	32.0	70.0 to 130	2.33	20.0
BC20098	Sulfate	mg/L	-0.0115	2.0	20.0	35.4	35.9	19.7	18.0 to 22.0	77.5	80.0 to 120	1.40	20.0
BC20098	Thallium, Dissolved	mg/L	0.0000073	0.000147	0.100	0.0955	0.0949	0.0991	0.0850 to 0.115	95.5	70.0 to 130	0.630	20.0
BC20098	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BC20098	Total Organic Carbon	mg/L	0.315	1.00	10.0	34.1	35.3	9.41		67.0	80.0 to 120	3.46	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 08:27

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-15V

Laboratory ID Number: BC20097

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC20093	Alkalinity to pH 4.5	mg CaCO3/L					303	50.7	45.0 to 55.0			0.331	10.0
BC20098	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.00	0.341	2.02	1.80 to 2.20	81.4	90.0 to 110	8.96	15.0
BC20097	Solids, Dissolved	mg/L	1.00	25.0			348	51.0	40.0 to 60.0			2.83	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 11/2/22 10:13
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20098

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Total	11/8/22 10:56	11/9/22 13:16		1.015	0.337	mg/L	0.030000	0.1015		
* Calcium, Total	11/8/22 10:56	11/9/22 13:16		1.015	17.6	mg/L	0.070035	0.406		
* Iron, Total	11/8/22 10:56	11/9/22 15:26		101.5	114	mg/L	0.8120	4.06	RA	
* Lithium, Total	11/8/22 10:56	11/9/22 13:16		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Total	11/8/22 10:56	11/9/22 13:16		1.015	16.4	mg/L	0.021315	0.406		
Silica, Total (calc.)	11/8/22 10:56	11/9/22 13:16		1	23.5	mg/L				
Silicon, Total	11/8/22 10:56	11/9/22 13:16		1.015	11.0	mg/L	0.02030	0.25375		
* Sodium, Total	11/8/22 10:56	11/9/22 15:26		101.5	72.1	mg/L	3.045	40.6	RA	
Analytical Method: EPA 200.7		Analyst: ABB			Preparation Method: EPA 1638					
* Boron, Dissolved	11/4/22 10:13	11/8/22 15:00		1.015	0.339	mg/L	0.030000	0.1015		
* Calcium, Dissolved	11/4/22 10:13	11/8/22 15:00		1.015	17.0	mg/L	0.070035	0.406		
* Iron, Dissolved	11/4/22 10:13	11/8/22 15:27		101.5	113	mg/L	0.8120	4.06	RA	
* Lithium, Dissolved	11/4/22 10:13	11/8/22 15:00		1.015	Not Detected	mg/L	0.007105	0.01999956	U	
* Magnesium, Dissolved	11/4/22 10:13	11/8/22 15:00		1.015	16.6	mg/L	0.021315	0.406		
Silica, Dissolved (calc.)	11/4/22 10:13	11/8/22 15:00		1	23.5	mg/L				
Silicon, Dissolved	11/4/22 10:13	11/8/22 15:00		1.015	11.0	mg/L	0.02030	0.25375		
* Sodium, Dissolved	11/4/22 10:13	11/8/22 15:27		101.5	69.0	mg/L	3.045	40.6	RA	
Analytical Method: EPA 200.8		Analyst: DLJ			Preparation Method: EPA 1638					
* Antimony, Total	11/8/22 10:56	11/8/22 15:39		1.015	Not Detected	mg/L	0.000508	0.001015	U	
* Aluminum, Total	11/8/22 10:56	11/8/22 15:39		1.015	0.0141	mg/L	0.006090	0.01015		
* Arsenic, Total	11/8/22 10:56	11/8/22 15:39		1.015	0.0664	mg/L	0.000081	0.000203		
* Barium, Total	11/8/22 10:56	11/8/22 15:39		1.015	0.230	mg/L	0.000508	0.001015		
* Beryllium, Total	11/8/22 10:56	11/8/22 15:39		1.015	Not Detected	mg/L	0.000406	0.001015	U	
* Cadmium, Total	11/8/22 10:56	11/8/22 15:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Chromium, Total	11/8/22 10:56	11/8/22 15:39		1.015	0.000799	mg/L	0.000203	0.001015	J	
* Cobalt, Total	11/8/22 10:56	11/8/22 15:39		1.015	0.00575	mg/L	0.000068	0.000203		
* Lead, Total	11/8/22 10:56	11/8/22 15:39		1.015	Not Detected	mg/L	0.000068	0.000203	U	
* Manganese, Total	11/8/22 10:56	11/8/22 15:39		1.015	0.211	mg/L	0.000152	0.001015		
* Molybdenum, Total	11/8/22 10:56	11/8/22 15:39		1.015	0.00104	mg/L	0.000102	0.000203		
* Potassium, Total	11/8/22 10:56	11/8/22 15:39		1.015	2.48	mg/L	0.169505	0.5075		

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 11/2/22 10:13
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20098

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
* Selenium, Total	11/8/22 10:56	11/8/22 15:39		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Total	11/8/22 10:56	11/8/22 15:39		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 200.8		Analyst: DLJ							
* Antimony, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Aluminum, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	Not Detected	mg/L	0.006090	0.01015	U
* Arsenic, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	0.0681	mg/L	0.000081	0.000203	
* Barium, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	0.229	mg/L	0.000508	0.001015	
* Beryllium, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	Not Detected	mg/L	0.000406	0.001015	U
* Cadmium, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Chromium, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	0.000675	mg/L	0.000203	0.001015	J
* Cobalt, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	0.00538	mg/L	0.000068	0.000203	
* Lead, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
* Manganese, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	0.206	mg/L	0.000152	0.001015	
* Molybdenum, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	0.00105	mg/L	0.000102	0.000203	
* Potassium, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	2.36	mg/L	0.169505	0.5075	
* Selenium, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	Not Detected	mg/L	0.000508	0.001015	U
* Thallium, Dissolved	11/4/22 10:13	11/4/22 16:49		1.015	Not Detected	mg/L	0.000068	0.000203	U
Analytical Method: EPA 245.1		Analyst: CRB							
* Mercury, Total by CVAA	11/7/22 18:06	11/7/22 22:29		1	Not Detected	mg/L	0.0003	0.0005	U
Analytical Method: EPA 353.2		Analyst: SC							
* Nitrogen, Nitrate/Nitrite	11/4/22 12:03	11/4/22 12:03		1	0.373	mg/L as N	0.20	0.3	R
Analytical Method: SM 2320 B		Analyst: ALH							
Alkalinity to pH 4.5	11/15/22 15:10	11/15/22 16:08		1	229	mg CaCO3/L		0.1	
Analytical Method: SM 2540C		Analyst: CNJ							
* Solids, Dissolved	11/8/22 11:45	11/9/22 13:47		1	446	mg/L		25	
Analytical Method: SM 4500CO2 D		Analyst: ALH							
Bicarbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	229	mg CaCO3/L			
Carbonate Alkalinity, (calc.)	11/15/22 15:10	11/15/22 16:08		1	Not Detected	mg CaCO3/L		0.5	
Analytical Method: SM 5310 B		Analyst: SC							
* Total Organic Carbon	11/4/22 17:10	11/4/22 17:10		1	27.4	mg/L	1.00	2	R

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Certificate Of Analysis

Description: Barry Ash Pond - MW-24H

Location Code: WMWBARAP
Collected: 11/2/22 10:13
Customer ID:
Submittal Date: 11/3/22 12:59

Laboratory ID Number: BC20098

Name	Prepared	Analyzed	Vio Spec	DF	Results	Units	MDL	RL	Q
Analytical Method: SM4500Cl E		Analyst: CES							
* Chloride	11/8/22 11:40	11/8/22 11:40		16	45.4	mg/L	8.00	16	
Analytical Method: SM4500F G 2017		Analyst: JCC							
* Fluoride	11/8/22 15:31	11/8/22 15:31		1	0.131	mg/L	0.06	0.125	
Analytical Method: SM4500SO4 E 2011		Analyst: JCC							
* Sulfate	11/10/22 10:27	11/10/22 10:27		1	19.9	mg/L	0.6	2	R
Analytical Method: Field Measurements		Analyst: DKG							
Conductivity	11/2/22 10:10	11/2/22 10:10			894.07	uS/cm			FA
pH	11/2/22 10:10	11/2/22 10:10			6.05	SU			FA
Temperature	11/2/22 10:10	11/2/22 10:10			21.31	C			FA
Turbidity	11/2/22 10:10	11/2/22 10:10			2.66	NTU			FA
Sulfide	11/2/22 10:10	11/2/22 10:10			0	mg/L			FA

MDL's and RL's are adjusted for sample dilution, as applicable

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 10:13

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BC20098

Sample	Analysis	Units	MB		Spike	MS	MSD	Standard		Rec		Prec	Limit
			MB	Limit				Standard	Limit	Rec	Limit		
BC20098	Aluminum, Dissolved	mg/L	-0.000522	0.010	0.100	0.0915	0.0924	0.0899	0.0850 to 0.115	91.5	70.0 to 130	0.979	20.0
BC20098	Aluminum, Total	mg/L	0.000336	0.010	0.100	0.109	0.106	0.0978	0.0850 to 0.115	94.9	70.0 to 130	2.79	20.0
BC20098	Antimony, Dissolved	mg/L	0.000234	0.00100	0.100	0.0949	0.0957	0.0923	0.0850 to 0.115	94.9	70.0 to 130	0.839	20.0
BC20098	Antimony, Total	mg/L	0.000194	0.00100	0.100	0.103	0.101	0.0988	0.0850 to 0.115	103	70.0 to 130	1.96	20.0
BC20098	Arsenic, Dissolved	mg/L	0.0000231	0.000176	0.100	0.163	0.161	0.0967	0.0850 to 0.115	94.9	70.0 to 130	1.23	20.0
BC20098	Arsenic, Total	mg/L	0.0000043	0.000176	0.100	0.165	0.161	0.101	0.0850 to 0.115	98.6	70.0 to 130	2.45	20.0
BC20098	Barium, Dissolved	mg/L	0.0000254	0.00100	0.100	0.332	0.326	0.0962	0.0850 to 0.115	103	70.0 to 130	1.82	20.0
BC20098	Barium, Total	mg/L	-0.0000087	0.00100	0.100	0.333	0.326	0.101	0.0850 to 0.115	103	70.0 to 130	2.12	20.0
BC20098	Beryllium, Dissolved	mg/L	0.0000108	0.000880	0.100	0.103	0.102	0.104	0.0850 to 0.115	103	70.0 to 130	0.976	20.0
BC20098	Beryllium, Total	mg/L	0.0000007	0.000880	0.100	0.0941	0.0960	0.0932	0.0850 to 0.115	94.1	70.0 to 130	2.00	20.0
BC20098	Boron, Dissolved	mg/L	-0.00127	0.0650	1.00	1.37	1.35	1.00	0.850 to 1.15	103	70.0 to 130	1.47	20.0
BC20098	Boron, Total	mg/L	0.000432	0.0650	1.00	1.34	1.34	0.999	0.850 to 1.15	100	70.0 to 130	0.00	20.0
BC20098	Cadmium, Dissolved	mg/L	0.0000111	0.000147	0.100	0.0999	0.0960	0.101	0.0850 to 0.115	99.9	70.0 to 130	3.98	20.0
BC20098	Cadmium, Total	mg/L	0.000	0.000147	0.100	0.0996	0.0982	0.103	0.0850 to 0.115	99.6	70.0 to 130	1.42	20.0
BC20098	Calcium, Dissolved	mg/L	-0.0143	0.152	5.00	21.6	20.9	4.64	4.25 to 5.75	92.0	70.0 to 130	3.29	20.0
BC20098	Calcium, Total	mg/L	0.00342	0.152	5.00	22.3	22.2	4.93	4.25 to 5.75	94.0	70.0 to 130	0.449	20.0
BC20098	Chloride	mg/L	0.041	1.00	160	217	221	9.74	9.00 to 11.0	107	80.0 to 120	1.83	20.0
BC20098	Chromium, Dissolved	mg/L	-0.000105	0.000440	0.100	0.0946	0.0960	0.100	0.0850 to 0.115	93.9	70.0 to 130	1.47	20.0
BC20098	Chromium, Total	mg/L	0.0000123	0.000440	0.100	0.0982	0.101	0.105	0.0850 to 0.115	97.4	70.0 to 130	2.81	20.0
BC20098	Cobalt, Dissolved	mg/L	-0.0000058	0.000147	0.100	0.104	0.105	0.103	0.0850 to 0.115	98.6	70.0 to 130	0.957	20.0
BC20098	Cobalt, Total	mg/L	0.0000027	0.000147	0.100	0.110	0.113	0.109	0.0850 to 0.115	104	70.0 to 130	2.69	20.0
BC20098	Fluoride	mg/L	0.00833	0.125	2.50	2.72	2.69	2.51	2.25 to 2.75	104	80.0 to 120	1.11	20.0
BC20098	Iron, Dissolved	mg/L	-0.000066	0.0176	0.2	115	113	0.196	0.170 to 0.230	1000	70.0 to 130	1.75	20.0
BC20098	Iron, Total	mg/L	-0.000126	0.0176	0.2	113	114	0.202	0.170 to 0.230	-500	70.0 to 130	0.881	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP
Sample Date: 11/2/22 10:13
Customer ID:
Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BC20098

Sample	Analysis	Units	MB					Standard		Rec		Prec	Limit
			MB	Limit	Spike	MS	MSD	Standard	Limit	Rec	Limit		
BC20098	Lead, Dissolved	mg/L	0.0000158	0.000147	0.100	0.0961	0.0942	0.0986	0.0850 to 0.115	96.1	70.0 to 130	2.00	20.0
BC20098	Lead, Total	mg/L	0.0000129	0.000147	0.100	0.108	0.109	0.106	0.0850 to 0.115	108	70.0 to 130	0.922	20.0
BC20098	Lithium, Dissolved	mg/L	0.000016	0.0154	0.200	0.214	0.215	0.209	0.170 to 0.230	107	70.0 to 130	0.466	20.0
BC20098	Lithium, Total	mg/L	0.000018	0.0154	0.200	0.204	0.205	0.202	0.170 to 0.230	102	70.0 to 130	0.489	20.0
BC20098	Magnesium, Dissolved	mg/L	-0.0105	0.0462	5.00	21.5	21.4	5.10	4.25 to 5.75	98.0	70.0 to 130	0.466	20.0
BC20098	Magnesium, Total	mg/L	0.00134	0.0462	5.00	21.0	21.0	5.01	4.25 to 5.75	92.0	70.0 to 130	0.00	20.0
BC20098	Manganese, Dissolved	mg/L	0.0000176	0.00033	0.100	0.298	0.302	0.102	0.0850 to 0.115	92.0	70.0 to 130	1.33	20.0
BC20098	Manganese, Total	mg/L	0.0000168	0.00033	0.100	0.310	0.322	0.109	0.0850 to 0.115	99.0	70.0 to 130	3.80	20.0
BC20098	Mercury, Total by CVAA	mg/L	6.000E-05	0.000500	0.004	0.00408	0.00407	0.00413	0.00340 to 0.00460	102	70.0 to 130	0.245	20.0
BC20098	Molybdenum, Dissolved	mg/L	-0.0000006	0.0002	0.100	0.0963	0.0943	0.0979	0.0850 to 0.115	95.2	70.0 to 130	2.10	20.0
BC20098	Molybdenum, Total	mg/L	0.000014	0.0002	0.100	0.0966	0.0991	0.100	0.0850 to 0.115	95.6	70.0 to 130	2.55	20.0
BC20098	Potassium, Dissolved	mg/L	-0.0104	0.367	10.0	11.7	11.8	9.78	8.50 to 11.5	93.4	70.0 to 130	0.851	20.0
BC20098	Potassium, Total	mg/L	0.0239	0.367	10.0	12.5	12.6	10.3	8.50 to 11.5	100	70.0 to 130	0.797	20.0
BC20098	Selenium, Dissolved	mg/L	0.0000026	0.00100	0.100	0.101	0.101	0.0995	0.0850 to 0.115	101	70.0 to 130	0.00	20.0
BC20098	Selenium, Total	mg/L	-0.0000147	0.00100	0.100	0.0984	0.102	0.103	0.0850 to 0.115	98.4	70.0 to 130	3.59	20.0
BC20098	Silicon, Dissolved	mg/L	-0.000470	0.0440	1.00	12.0	11.9	0.995	0.850 to 1.15	100	70.0 to 130	0.837	20.0
BC20098	Silicon, Total	mg/L	-0.000475	0.0440	1.00	11.9	11.9	0.999	0.850 to 1.15	90.0	70.0 to 130	0.00	20.0
BC20098	Sodium, Dissolved	mg/L	0.0147	0.0660	5.00	76.0	73.8	5.19	4.25 to 5.75	140	70.0 to 130	2.94	20.0
BC20098	Sodium, Total	mg/L	0.0163	0.0660	5.00	73.7	72.0	5.08	4.25 to 5.75	32.0	70.0 to 130	2.33	20.0
BC20098	Sulfate	mg/L	-0.0115	2.0	20.0	35.4	35.9	19.7	18.0 to 22.0	77.5	80.0 to 120	1.40	20.0
BC20098	Thallium, Dissolved	mg/L	0.0000073	0.000147	0.100	0.0955	0.0949	0.0991	0.0850 to 0.115	95.5	70.0 to 130	0.630	20.0
BC20098	Thallium, Total	mg/L	0.0000041	0.000147	0.100	0.108	0.108	0.106	0.0850 to 0.115	108	70.0 to 130	0.00	20.0
BC20098	Total Organic Carbon	mg/L	0.315	1.00	10.0	34.1	35.3	9.41		67.0	80.0 to 120	3.46	20.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Batch QC Summary

Customer Account: WMWBARAP

Sample Date: 11/2/22 10:13

Customer ID:

Delivery Date: 11/3/22 12:59

Description: Barry Ash Pond - MW-24H

Laboratory ID Number: BC20098

Sample	Analysis	Units	MB	MB Limit	Spike	MS	Sample Duplicate	Standard	Standard Limit	Rec	Rec Limit	Prec	Prec Limit
BC20093	Alkalinity to pH 4.5	mg CaCO3/L					303	50.7	45.0 to 55.0			0.331	10.0
BC20098	Nitrogen, Nitrate/Nitrite	mg/L as N	0.02	0.200	2.00	2.00	0.341	2.02	1.80 to 2.20	81.4	90.0 to 110	8.96	15.0
BC20098	Solids, Dissolved	mg/L	1.00	25.0			446	53.0	40.0 to 60.0			0.00	10.0

Comments: Filtered LCS and MB were not submitted or analyzed with Dissolved Metals.

Definitions

Project Number: WMWBARAP_1390

Abbreviation	Description
DF	Dilution Factor
LCS	Lab Control Sample
LFM	Lab Fortified Matrix
MB	Method Blank
MDL	Method Detection Limit; minimum concentration of an analyte that can be determined with 99% confidence that the concentration is greater than zero.
MS	Matrix Spike
MSD	Matrix Spike Duplicate
Prec	Precision (% RPD)
Q	Qualifier; comment used to note deviations or additional information associated with analytical results.
QC	Quality Control
Rec	Recovery of Matrix Spike
RL	Reporting Limit; lowest concentration at which an analyte can be quantitatively measured.
Vio Spec	Violation Specification; regulatory limit which has been exceeded by the sample analyzed.

Qualifier	Description
A	Bicarbonate alkalinity, carbonate alkalinity, hydroxide alkalinity, free carbon dioxide, and/or total carbon dioxide calculations are estimates due to pH>10SU and/or TDS>500mg/L.
FA	Field results were reviewed by the Water Field Group. Refer to APC Field Case Narrative.
J	Reported value is an estimate because concentration is less than reporting limit.
R	Matrix spike recovery and/or matrix spike duplicate recovery is outside of specification limit.
RA	Matrix spike is invalid due to sample concentration.
U	Compound was analyzed, but not detected.



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: relinquished to GSC shipping lab. BC 11/02/2022
 changed MW-25 to MW-25H per sample bottle/event. BC 11/02/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-19H	10/31/2022	12:15	6	Groundwater		BC19925
MW-20H	10/31/2022	13:00	6	Groundwater		BC19926
MW-22H	10/31/2022	14:02	6	Groundwater		BC19927
MW-6	10/31/2022	16:02	6	Groundwater		BC19928
MW-25H	10/31/2022	17:07	6	Groundwater		BC19929
MW-25V	11/01/2022	08:15	6	Groundwater		BC19930
MW-23V	11/01/2022	09:14	6	Groundwater		BC19931
MW-23H	11/01/2022	10:16	6	Groundwater		BC19932
MW-23H dup	11/01/2022	10:16	6	Sample Duplicate		BC19933
FB-3	11/01/2022	10:45	5	Field Blank		BC19934

Relinquished By	Received By	Date/Time
		11/01/2022 11:32
	Brooke Caton	11/02/2022 09:40
	<small>Digitally signed by Brooke Caton Date: 2022.11.02 09:40:54 -05'00'</small>	

SmarTroll ID	7586-41444-5-3
Turbidity ID	9901-57263-1-1
Sample Event	1390

All pH requirements have been met

Cooler Temp	1.4 °C
Thermometer ID	7044-38281-2-1
pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: relinquished to GSC shipping lab. BC 11/02/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17V	10/31/2022	12:40	6	Groundwater		BC19914
MW-17H	10/31/2022	14:00	6	Groundwater		BC19915
MW-5V	10/31/2022	15:10	6	Groundwater		BC19916
MW-5	10/31/2022	16:00	6	Groundwater		BC19917
MW-5 Dup	10/31/2022	16:00	6	Sample Duplicate		BC19918
MW-4	10/31/2022	17:10	6	Groundwater		BC19919
MW-3	11/01/2022	07:48	6	Groundwater		BC19920
MW-16	11/01/2022	09:05	6	Groundwater		BC19921
MW-15	11/01/2022	09:52	6	Groundwater		BC19922
FB-4	11/01/2022	10:30	5	Field Blank		BC19923
MW-14V	11/01/2022	10:47	6	Groundwater		BC19924

Relinquished By	Received By	Date/Time
		11/01/2022 11:31
	Brooke Caton	11/02/2022 09:40
	<small>Digitally signed by Brooke Caton Date: 2022.11.02 09:40:40 -05'00'</small>	

SmarTroll ID	7586-41443-5-2	All pH requirements have been met <input checked="" type="checkbox"/>
Turbidity ID	4677-23343-4-2	
Sample Event	1390	
Cooler Temp	1.7 °C	
Thermometer ID	7044-38281-2-1	
pH Strip ID	10429-60252-10-8	

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite/Nirate;TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments: relinquished to GSC shipping lab. BC 11/02/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18H	10/31/2022	10:34	6	Groundwater		BC19901
MW-7	10/31/2022	12:08	6	Groundwater		BC19902
MW-7Dup	10/31/2022	12:08	6	Sample Duplicate		BC19903
FB-1	10/31/2022	12:30	5	Field Blank		BC19904
MW-7V	10/31/2022	13:04	6	Groundwater		BC19905
MW-8V	10/31/2022	14:00	6	Groundwater		BC19906
MW-9	10/31/2022	14:55	6	Groundwater		BC19907
FB-2	11/01/2022	08:35	5	Field Blank		BC19908
MW-10V	11/01/2022	08:48	6	Groundwater		BC19909
MW-11	11/01/2022	09:45	6	Groundwater		BC19910
MW-12V	11/01/2022	10:27	6	Groundwater		BC19911
MW-12	11/01/2022	11:20	6	Groundwater		BC19912
MW-12Dup	11/01/2022	11:20	6	Sample Duplicate		BC19913

Relinquished By	Received By	Date/Time
		11/01/2022 11:46
	Brooke Caton	11/02/2022 09:40
	<small>Digitally signed by Brooke Caton Date: 2022.11.02 09:40:24 -05'00'</small>	

SmarTroll ID	7586-41442-5-1	All pH requirements have been met <input checked="" type="checkbox"/>
Turbidity ID	9830-57039-1-1	
Sample Event	1390	
Cooler Temp	2.2 °C	
Thermometer ID	7044-38281-2-1	
pH Strip ID	10429-60252-10-8	

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer		
	Collector		Anthony Goggins	Requested By	Greg Dyer
			Location		Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrite/Nitrate;TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-20V	11/01/2022	14:05	6	Groundwater		BC20086
MW-13	11/01/2022	14:54	6	Groundwater		BC20087
MW-13V	11/01/2022	15:30	6	Groundwater		BC20088
MW-8	11/02/2022	08:02	6	Groundwater		BC20089
EB-1	11/02/2022	08:30	5	Equipment Blank		BC20090
MW-10	11/02/2022	10:30	6	Groundwater		BC20091

Relinquished By	Received By	Date/Time
<i>[Signature]</i>	<i>Bush Carter</i>	11/03/2022 10:08

SmarTroll ID	7586-41442-5-1	All pH requirements have been met <input checked="" type="checkbox"/>	
Turbidity ID	9830-57039-1-1		
Sample Event	1390		
		Cooler Temp	1.9 °C
		Thermometer ID	7044-38281-2-1
		pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	TJ Daugherty	Requested By	Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrites/Nitrates, TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-2	11/02/2022	08:35	6	Groundwater		BC20092
MW-1	11/02/2022	10:43	6	Groundwater		BC20093

Relinquished By	Received By	Date/Time
<i>H. AB</i>	<i>Greg Dyer</i>	11/03/2022 11:01

SmarTroll ID 7586-41443-5-2 Turbidity ID 4677-23343-4-2 Sample Event 1390	All pH requirements have been met <input checked="" type="checkbox"/> Cooler Temp 1.4 °C Thermometer ID 7044-38281-2-1 pH Strip ID 10429-60252-10-8
---	--

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody
Groundwater
 APC General Testing Laboratory

Field Complete Outside Lab
 Lab Complete

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
Collector	Dallas Gentry	Requested By	Greg Dyer
		Location	Barry Ash Pond

Bottles	1	Metals	500 mL	3	Hg	250 mL	5	TDS/Alkalinity	500 mL	7	N/A	N/A
	2	Dissolved Metals	500 mL	4	Nitrate/Nitrite; TOC	250 mL	6	Anions	250 mL	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1V	11/01/2022	13:58	6	Groundwater		BC20094
MW-16V	11/01/2022	14:44	6	Groundwater		BC20095
MW-14	11/01/2022	15:31	6	Groundwater		BC20096
MW-15V	11/02/2022	08:27	6	Groundwater		BC20097
MW-24H	11/02/2022	10:13	6	Groundwater		BC20098

Relinquished By	Received By	Date/Time
<i>Dallas Gentry</i>	<i>Bruce Cotton</i>	11/03/2022 11:14

SmarTroll ID	7586-41444-5-3	All pH requirements have been met <input checked="" type="checkbox"/> Cooler Temp 1.9 °C Thermometer ID 7044-38281-2-1 pH Strip ID 10429-60252-10-8
Turbidity ID	9901-57263-1-1	
Sample Event	1390	

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer	
	Collector	Dallas Gentry		Requested By	Greg Dyer
			Location	Barry Ash Pond	

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments	Radium MS/MSD collected at MW-6 relinquished to GSC shipping lab. BC 11/02/2022
----------	---

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-19H	10/31/2022	12:15	1	Groundwater		BC19959
MW-20H	10/31/2022	13:00	1	Groundwater		BC19960
MW-22H	10/31/2022	14:02	1	Groundwater		BC19961
MW-6	10/31/2022	16:02	3	Groundwater		BC19962
MW-25H	10/31/2022	17:07	1	Groundwater		BC19963
MW-25V	11/01/2022	08:15	1	Groundwater		BC19964
MW-23V	11/01/2022	09:14	1	Groundwater		BC19965
MW-23H	11/01/2022	10:16	1	Groundwater		BC19966
MW-23H dup	11/01/2022	10:16	1	Sample Duplicate		BC19967
FB-3	11/01/2022	10:45	1	Field Blank		BC19968

Relinquished By	Received By	Date/Time
		11/01/2022 11:32
	Brooke Caton	11/02/2022 09:46
	Digitally signed by Brooke Caton Date: 2022.11.02 09:46:47 -05'00'	

SmarTroll ID	7586-41444	All pH requirements have been met	<input checked="" type="checkbox"/>
Turbidity ID	9901-57263-1-1	Cooler Temp	N/A
Sample Event	1390	Thermometer ID	N/A
		pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: TJ Daugherty		Requested By
		Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments: Rad MS/MSD on 17H relinquished to GSC shipping lab. BC 11/02/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-17V	10/31/2022	12:40	1	Groundwater		BC19948
MW-17H	10/31/2022	14:00	3	Groundwater		BC19949
MW-5V	10/31/2022	15:10	1	Groundwater		BC19950
MW-5	10/31/2022	16:00	1	Groundwater		BC19951
MW-5 Dup	10/31/2022	16:00	1	Sample Duplicate		BC19952
MW-4	10/31/2022	17:10	1	Groundwater		BC19953
MW-3	11/01/2022	07:48	1	Groundwater		BC19954
MW-16	11/01/2022	09:05	1	Groundwater		BC19955
MW-15	11/01/2022	09:52	1	Groundwater		BC19956
FB-4	11/01/2022	10:30	1	Field Blank		BC19957
MW-14V	11/01/2022	10:47	1	Groundwater		BC19958

Relinquished By	Received By	Date/Time
		11/01/2022 11:31
	Brooke Caton	11/02/2022 09:46
	<small>Digitally signed by Brooke Caton Date: 2022.11.02 09:46:23 -05'00'</small>	

SmarTroll ID	7586-41443-5-2	All pH requirements have been met <input checked="" type="checkbox"/>	
Turbidity ID	4677-23343-4-2		
Sample Event	1390		
		Cooler Temp	N/A
		Thermometer ID	N/A
		pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Anthony Goggins		Requested By: Greg Dyer
		Location	Barry Ash Pond

Bottles	1 Radium	1 L	3 N/A	N/A	5 N/A	N/A	7 N/A	N/A
	2 N/A	N/A	4 N/A	N/A	6 N/A	N/A	8 N/A	N/A

Comments: MS/MSD collected @ MW-7V relinquished to GSC shipping lab. BC 11/02/2022

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-18H	10/31/2022	10:34	1	Groundwater		BC19935
MW-7	10/31/2022	12:08	1	Groundwater		BC19936
MW-7Dup	10/31/2022	12:08	1	Sample Duplicate		BC19937
FB-1	10/31/2022	12:30	1	Field Blank		BC19938
MW-7V	10/31/2022	13:04	3	Groundwater		BC19939
MW-8V	10/31/2022	14:00	1	Groundwater		BC19940
MW-9	10/31/2022	14:55	1	Groundwater		BC19941
FB-2	11/01/2022	08:35	1	Field Blank		BC19942
MW-10V	11/01/2022	08:48	1	Groundwater		BC19943
MW-11	11/01/2022	09:45	1	Groundwater		BC19944
MW-12V	11/01/2022	10:27	1	Groundwater		BC19945
MW-12	11/01/2022	11:20	1	Groundwater		BC19946
MW-12Dup	11/01/2022	11:20	1	Sample Duplicate		BC19947

Relinquished By	Received By	Date/Time
		11/01/2022 11:45
	Brooke Caton	11/02/2022 09:45
	<small>Digitally signed by Brooke Caton Date: 2022.11.02 09:45:27 -05'00'</small>	

SmarTroll ID	7586-41442-5-1	All pH requirements have been met <input checked="" type="checkbox"/>
Turbidity ID	9830-57039-1-1	
Sample Event	1390	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	10429-60252-10-8	

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine		Results To	Dustin Brooks, Greg Dyer		
	Collector: Anthony Goggins			Requested By	Greg Dyer	
					Location: Barry Ash Pond	

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-20V	11/01/2022	14:05	1	Groundwater		BC20099
MW-13	11/01/2022	14:54	1	Groundwater		BC20100
MW-13V	11/01/2022	15:30	1	Groundwater		BC20101
MW-8	11/02/2022	08:02	1	Groundwater		BC20102
EB-1	11/02/2022	08:30	1	Equipment Blank		BC20103
MW-10	11/02/2022	10:30	1	Groundwater		BC20104

Relinquished By	Received By	Date/Time
<i>Anthony Goggins</i>	<i>Bob Allen</i>	11/03/2022 10:08

SmarTroll ID	7586-41442-5-1	All pH requirements have been met <input checked="" type="checkbox"/>
Turbidity ID	9830-57039-1-1	
Sample Event	1390	
Cooler Temp	N/A	
Thermometer ID	N/A	
pH Strip ID	10429-60252-10-8	

Bottles/Pre-Preserved Bottles are provided by the GTL
 Total Metals and Alkalinity are not performed on Dissolved Sets
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody Groundwater

APC General Testing Laboratory

Field Complete
 Lab Complete

Outside Lab

Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer	
Collector	TJ Daugherty	Requested By	Greg Dyer	
		Location	Barry Ash Pond	

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-2	11/02/2022	08:35	1	Groundwater		BC20105
MW-1	11/02/2022	10:43	1	Groundwater		BC20106

Relinquished By	Received By	Date/Time
<i>HAB</i>	<i>Greg Dyer</i>	11/03/2022 11:01

SmarTroll ID	7586-41443-5-2	All pH requirements have been met <input checked="" type="checkbox"/>	Cooler Temp	N/A
Turbidity ID	4677-23343-4-2		Thermometer ID	N/A
Sample Event	1390		pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL
Total Metals and Alkalinity are not performed on Dissolved Sets
Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks



Chain of Custody

Groundwater

APC General Testing Laboratory

 Field Complete
 Lab Complete

 Outside Lab

 Lab ETA

Requested Complete Date	Routine	Results To	Dustin Brooks, Greg Dyer
	Collector: Dallas Gentry		Requested By
		Location	Barry Ash Pond

Bottles	1	Radium	1 L	3	N/A	N/A	5	N/A	N/A	7	N/A	N/A
	2	N/A	N/A	4	N/A	N/A	6	N/A	N/A	8	N/A	N/A

 Comments

Sample #	Date	Time	Bottle Count	Description	Lab Filter	Lab Id
MW-1V	11/01/2022	13:58	1	Groundwater		BC20107
MW-16V	11/01/2022	14:44	1	Groundwater		BC20108
MW-14	11/01/2022	15:31	1	Groundwater		BC20109
MW-15V	11/02/2022	08:27	1	Groundwater		BC20110
MW-24H	11/02/2022	10:13	1	Groundwater		BC20111

Relinquished By	Received By	Date/Time
<i>Miles Dyer</i>	<i>Bruce Cotton</i>	11/03/2022 11:14

SmarTroll ID	7586-41444-5-3	All pH requirements have been met	<input checked="" type="checkbox"/>
Turbidity ID	9901-57263-1-1	Cooler Temp	N/A
Sample Event	1390	Thermometer ID	N/A
		pH Strip ID	10429-60252-10-8

Bottles/Pre-Preserved Bottles are provided by the GTL.
 Total Metals and Alkalinity are not performed on Dissolved Sets.
 Dissolved Metals and Alkalinity are not performed on blanks i.e. Field Blanks or Equipment Blanks

December 19, 2022

Brooke Caton
Alabama Power
744 Highway 87
Calera, AL 35040

RE: Project: WMWBARAP_1390
Pace Project No.: 30537388

Dear Brooke Caton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 10, 2022. 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

(Greensburg, PA) - Revision 1 - This report replaces the 12/13/22 report. This project was revised on 12/14/22 in order to revise the sample ID for 035 per client request.

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

Sincerely,



Skyler C. Richmond
skyler.richmond@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Blaine Denton, Alabama Power
Renee Jernigan, Alabama Power



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: WMWBARAP_1390
Pace Project No.: 30537388

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30537388001	BC19935 MW-18H	Water	10/31/22 10:34	11/10/22 11:40
30537388002	BC19936 MW-7	Water	10/31/22 12:08	11/10/22 11:40
30537388003	BC19937 MW-7 Dup	Water	10/31/22 12:08	11/10/22 11:40
30537388004	BC19938 FB-1	Water	10/31/22 12:30	11/10/22 11:40
30537388005	BC19939 MW-7V	Water	10/31/22 13:04	11/10/22 11:40
30537388006	BC19939 MW-7V MS	Water	10/31/22 13:04	11/10/22 11:40
30537388007	BC19939 MW-7V MSD	Water	10/31/22 13:04	11/10/22 11:40
30537388008	BC19940 MW-8V	Water	10/31/22 14:00	11/10/22 11:40
30537388009	BC19941 MW-9	Water	10/31/22 14:55	11/10/22 11:40
30537388010	BC19942 FB-2	Water	11/01/22 08:35	11/10/22 11:40
30537388011	BC19943 MW-10V	Water	11/01/22 08:48	11/10/22 11:40
30537388012	BC19944 MW-11	Water	11/01/22 09:45	11/10/22 11:40
30537388013	BC19945 MW-12V	Water	11/01/22 10:27	11/10/22 11:40
30537388014	BC19946 MW-12	Water	11/01/22 11:20	11/10/22 11:40
30537388015	BC19947 MW-12 Dup	Water	11/01/22 11:20	11/10/22 11:40
30537388016	BC19948 MW-17V	Water	10/31/22 12:40	11/10/22 11:40
30537388017	BC19949 MW-17H	Water	10/31/22 14:00	11/10/22 11:40
30537388018	BC19949 MW-17H MS	Water	10/31/22 14:00	11/10/22 11:40
30537388019	BC19949 MW-17H MSD	Water	10/31/22 14:00	11/10/22 11:40
30537388020	BC19950 MW-5V	Water	10/31/22 15:10	11/10/22 11:40
30537388021	BC19951 MW-5	Water	10/31/22 16:00	11/10/22 11:40
30537388022	BC19951 MW-5 Dup	Water	10/31/22 16:00	11/10/22 11:40
30537388023	BC19953 MW-4	Water	10/31/22 17:10	11/10/22 11:40
30537388024	BC19954 MW-3	Water	11/01/22 07:48	11/10/22 11:40
30537388025	BC19955 MW-16	Water	11/01/22 09:05	11/10/22 11:40
30537388026	BC19956 MW-15	Water	11/01/22 09:52	11/10/22 11:40
30537388027	BC19957 FB-4	Water	11/01/22 10:30	11/10/22 11:40
30537388028	BC19958 MW-14V	Water	11/01/22 10:47	11/10/22 11:40
30537388029	BC19959 MW-19H	Water	10/31/22 12:15	11/10/22 11:40
30537388030	BC19960 MW-20H	Water	10/31/22 13:00	11/10/22 11:40
30537388031	BC19961 MW-22H	Water	10/31/22 14:02	11/10/22 11:40
30537388032	BC19962 MW-6	Water	10/31/22 16:02	11/10/22 11:40
30537388033	BC19962 MW-6 MS	Water	10/31/22 16:02	11/10/22 11:40
30537388034	BC19962 MW-6 MSD	Water	10/31/22 16:02	11/10/22 11:40
30537388035	BC19963 MW-25H	Water	10/31/22 17:07	11/10/22 11:40
30537388036	BC19964 MW-25V	Water	11/01/22 08:15	11/10/22 11:40
30537388037	BC19965 MW-23V	Water	11/01/22 09:14	11/10/22 11:40

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30537388038	BC19966 MW-23H	Water	11/01/22 10:16	11/10/22 11:40
30537388039	BC19967 MW-23H Dup	Water	11/01/22 10:16	11/10/22 11:40
30537388040	BC19968 FB-3	Water	11/01/22 10:45	11/10/22 11:40
30537388041	BC20099 MW-20V	Water	11/01/22 14:05	11/10/22 11:40
30537388042	BC20100 MW-13	Water	11/01/22 14:54	11/10/22 11:40
30537388043	BC20101 MW-13V	Water	11/01/22 15:30	11/10/22 11:40
30537388044	BC20102 MW-8	Water	11/02/22 08:02	11/10/22 11:40
30537388045	BC20103 EB-1	Water	11/02/22 08:30	11/10/22 11:40
30537388046	BC20104 MW-10	Water	11/02/22 10:30	11/10/22 11:40
30537388047	BC20105 MW-2	Water	11/02/22 08:35	11/10/22 11:40
30537388048	BC20106 MW-1	Water	11/02/22 10:43	11/10/22 11:40
30537388049	BC20107 MW-1V	Water	11/01/22 13:58	11/10/22 11:40
30537388050	BC20108 MW-16V	Water	11/01/22 14:44	11/10/22 11:40
30537388051	BC20109 MW-14	Water	11/01/22 15:31	11/10/22 11:40
30537388052	BC20110 MW-15V	Water	11/02/22 08:27	11/10/22 11:40
30537388053	BC20111 MW-24H	Water	11/02/22 10:13	11/10/22 11:40

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1390
Pace Project No.: 30537388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30537388001	BC19935 MW-18H	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388002	BC19936 MW-7	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388003	BC19937 MW-7 Dup	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388004	BC19938 FB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388005	BC19939 MW-7V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388006	BC19939 MW-7V MS	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388007	BC19939 MW-7V MSD	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388008	BC19940 MW-8V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388009	BC19941 MW-9	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388010	BC19942 FB-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388011	BC19943 MW-10V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388012	BC19944 MW-11	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388013	BC19945 MW-12V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1390
Pace Project No.: 30537388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30537388014	BC19946 MW-12	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388015	BC19947 MW-12 Dup	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388016	BC19948 MW-17V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388017	BC19949 MW-17H	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388018	BC19949 MW-17H MS	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30537388019	BC19949 MW-17H MSD	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
30537388020	BC19950 MW-5V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388021	BC19951 MW-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388022	BC19951 MW-5 Dup	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388023	BC19953 MW-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388024	BC19954 MW-3	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388025	BC19955 MW-16	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388026	BC19956 MW-15	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1390
Pace Project No.: 30537388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30537388027	BC19957 FB-4	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388028	BC19958 MW-14V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388029	BC19959 MW-19H	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388030	BC19960 MW-20H	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388031	BC19961 MW-22H	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388032	BC19962 MW-6	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388033	BC19962 MW-6 MS	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388034	BC19962 MW-6 MSD	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388035	BC19963 MW-25H	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388036	BC19964 MW-25V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388037	BC19965 MW-23V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388038	BC19966 MW-23H	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388039	BC19967 MW-23H Dup	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1390
Pace Project No.: 30537388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30537388040	BC19968 FB-3	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388041	BC20099 MW-20V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388042	BC20100 MW-13	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388043	BC20101 MW-13V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388044	BC20102 MW-8	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388045	BC20103 EB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388046	BC20104 MW-10	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388047	BC20105 MW-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388048	BC20106 MW-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388049	BC20107 MW-1V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388050	BC20108 MW-16V	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388051	BC20109 MW-14	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30537388052	BC20110 MW-15V	EPA 9315	RMS	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: WMWBARAP_1390

Pace Project No.: 30537388

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30537388053	BC20111 MW-24H	EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARAP_1390

Pace Project No.: 30537388

Method: EPA 9315

Description: 9315 Total Radium

Client: Alabama Power

Date: December 19, 2022

General Information:

53 samples were analyzed for EPA 9315 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARAP_1390

Pace Project No.: 30537388

Method: EPA 9320

Description: 9320 Radium 228

Client: Alabama Power

Date: December 19, 2022

General Information:

53 samples were analyzed for EPA 9320 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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

PROJECT NARRATIVE

Project: WMWBARAP_1390

Pace Project No.: 30537388

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Alabama Power

Date: December 19, 2022

General Information:

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

Hold Time:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19935 MW-18H **Lab ID: 30537388001** Collected: 10/31/22 10:34 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.187U ± 0.157 (0.276) C:99% T:NA	pCi/L	12/08/22 20:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.504U ± 0.316 (0.589) C:87% T:90%	pCi/L	12/09/22 11:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.691U ± 0.473 (0.865)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19936 MW-7 **Lab ID: 30537388002** Collected: 10/31/22 12:08 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.227U ± 0.167 (0.280) C:98% T:NA	pCi/L	12/08/22 20:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.705 ± 0.372 (0.643) C:81% T:81%	pCi/L	12/09/22 11:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.932 ± 0.539 (0.923)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19937 MW-7 Dup **Lab ID: 30537388003** Collected: 10/31/22 12:08 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0959U ± 0.165 (0.370) C:99% T:NA	pCi/L	12/08/22 20:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.129U ± 0.273 (0.605) C:87% T:89%	pCi/L	12/09/22 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.225U ± 0.438 (0.975)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19938 FB-1 **Lab ID: 30537388004** Collected: 10/31/22 12:30 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0843U ± 0.123 (0.264) C:100% T:NA	pCi/L	12/08/22 20:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.270U ± 0.280 (0.576) C:82% T:88%	pCi/L	12/09/22 14:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.354U ± 0.403 (0.840)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19939 MW-7V **Lab ID: 30537388005** Collected: 10/31/22 13:04 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0875U ± 0.137 (0.302) C:96% T:NA	pCi/L	12/08/22 20:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.244U ± 0.255 (0.522) C:82% T:91%	pCi/L	12/09/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.332U ± 0.392 (0.824)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19939 MW-7V MS **Lab ID: 30537388006** Collected: 10/31/22 13:04 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	99.73 %REC ± NA (NA) C:NA T:NA	pCi/L	12/08/22 20:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	88.65 %REC ± NA (NA) C:NA T:NA	pCi/L	12/09/22 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19939 MW-7V MSD **Lab ID: 30537388007** Collected: 10/31/22 13:04 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	104.14 %REC 4.32RPD ± NA (NA) C:NA T:NA	pCi/L	12/08/22 20:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	86.21 %REC 2.79RPD ± NA (NA) C:NA T:NA	pCi/L	12/09/22 14:54	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19940 MW-8V **Lab ID: 30537388008** Collected: 10/31/22 14:00 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.554 ± 0.241 (0.271) C:101% T:NA	pCi/L	12/08/22 20:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.566U ± 0.324 (0.577) C:81% T:91%	pCi/L	12/09/22 14:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.12 ± 0.565 (0.848)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19941 MW-9 **Lab ID: 30537388009** Collected: 10/31/22 14:55 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.383 ± 0.199 (0.258) C:100% T:NA	pCi/L	12/08/22 20:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.26 ± 0.460 (0.660) C:82% T:88%	pCi/L	12/09/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.64 ± 0.659 (0.918)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC19942 FB-2 Lab ID: 30537388010 Collected: 11/01/22 08:35 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0558U ± 0.128 (0.306) C:100% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.449U ± 0.365 (0.726) C:79% T:88%	pCi/L	12/09/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.505U ± 0.493 (1.03)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19943 MW-10V **Lab ID: 30537388011** Collected: 11/01/22 08:48 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.529 ± 0.246 (0.299) C:99% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.815 ± 0.406 (0.696) C:79% T:86%	pCi/L	12/09/22 14:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.34 ± 0.652 (0.995)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19944 MW-11 **Lab ID: 30537388012** Collected: 11/01/22 09:45 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.519 ± 0.246 (0.307) C:101% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.515U ± 0.307 (0.548) C:79% T:93%	pCi/L	12/09/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.03 ± 0.553 (0.855)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19945 MW-12V **Lab ID: 30537388013** Collected: 11/01/22 10:27 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.289U ± 0.213 (0.361) C:100% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.527U ± 0.340 (0.636) C:82% T:88%	pCi/L	12/09/22 14:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.816U ± 0.553 (0.997)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC19946 MW-12 Lab ID: 30537388014 Collected: 11/01/22 11:20 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.325 ± 0.191 (0.266) C:99% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.347U ± 0.317 (0.643) C:83% T:94%	pCi/L	12/09/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.672U ± 0.508 (0.909)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19947 MW-12 Dup **Lab ID: 30537388015** Collected: 11/01/22 11:20 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.637 ± 0.280 (0.324) C:98% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.213U ± 0.273 (0.578) C:85% T:89%	pCi/L	12/09/22 14:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.850U ± 0.553 (0.902)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19948 MW-17V **Lab ID: 30537388016** Collected: 10/31/22 12:40 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	2.51 ± 0.577 (0.326) C:97% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.75 ± 0.704 (0.619) C:84% T:81%	pCi/L	12/09/22 14:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	5.26 ± 1.28 (0.945)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19949 MW-17H **Lab ID: 30537388017** Collected: 10/31/22 14:00 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.414 ± 0.215 (0.312) C:102% T:NA	pCi/L	12/09/22 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.514U ± 0.334 (0.632) C:85% T:92%	pCi/L	12/09/22 14:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.928U ± 0.549 (0.944)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19949 MW-17H MS **Lab ID: 30537388018** Collected: 10/31/22 14:00 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	96.96 %REC ± NA (NA) C:NA T:NA	pCi/L	12/09/22 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	75.30 %REC ± NA (NA) C:NA T:NA	pCi/L	12/09/22 14:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19949 MW-17H MSD **Lab ID: 30537388019** Collected: 10/31/22 14:00 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	100.95 %REC 4.03RPD ± NA (NA) C:NA T:NA	pCi/L	12/09/22 08:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	64.58 %REC 15.32RPD ± NA (NA) C:NA T:NA	pCi/L	12/09/22 14:40	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19950 MW-5V **Lab ID: 30537388020** Collected: 10/31/22 15:10 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.105U ± 0.123 (0.246) C:98% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.595U ± 0.383 (0.719) C:80% T:85%	pCi/L	12/09/22 14:54	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.700U ± 0.506 (0.965)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC19951 MW-5 Lab ID: 30537388021 Collected: 10/31/22 16:00 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.333 ± 0.185 (0.253) C:102% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.417U ± 0.308 (0.597) C:85% T:92%	pCi/L	12/09/22 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.750U ± 0.493 (0.850)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19951 MW-5 Dup **Lab ID: 30537388022** Collected: 10/31/22 16:00 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.392 ± 0.194 (0.243) C:102% T:NA	pCi/L	12/09/22 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.914 ± 0.368 (0.542) C:86% T:88%	pCi/L	12/09/22 14:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.31 ± 0.562 (0.785)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC19953 MW-4 Lab ID: 30537388023 Collected: 10/31/22 17:10 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.595 ± 0.260 (0.343) C:97% T:NA	pCi/L	12/09/22 08:15	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.332U ± 0.283 (0.558) C:80% T:90%	pCi/L	12/09/22 14:55	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.927 ± 0.543 (0.901)	pCi/L	12/12/22 15:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19954 MW-3 **Lab ID: 30537388024** Collected: 11/01/22 07:48 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.505 ± 0.233 (0.268) C:99% T:NA	pCi/L	12/09/22 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.125U ± 0.222 (0.564) C:83% T:96%	pCi/L	12/09/22 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.505U ± 0.455 (0.832)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19955 MW-16 **Lab ID: 30537388025** Collected: 11/01/22 09:05 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.442 ± 0.231 (0.295) C:99% T:NA	pCi/L	12/09/22 08:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.643 ± 0.339 (0.592) C:88% T:89%	pCi/L	12/09/22 14:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.09 ± 0.570 (0.887)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19956 MW-15 **Lab ID: 30537388026** Collected: 11/01/22 09:52 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.464 ± 0.247 (0.339) C:101% T:NA	pCi/L	12/09/22 08:20	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.681 ± 0.369 (0.659) C:85% T:88%	pCi/L	12/09/22 14:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.15 ± 0.616 (0.998)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19957 FB-4 **Lab ID: 30537388027** Collected: 11/01/22 10:30 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0577U ± 0.141 (0.338) C:100% T:NA	pCi/L	12/09/22 08:21	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0728U ± 0.252 (0.573) C:83% T:93%	pCi/L	12/09/22 14:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.131U ± 0.393 (0.911)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19958 MW-14V **Lab ID: 30537388028** Collected: 11/01/22 10:47 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.716 ± 0.299 (0.335) C:100% T:NA	pCi/L	12/09/22 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.660 ± 0.343 (0.595) C:88% T:87%	pCi/L	12/09/22 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.38 ± 0.642 (0.930)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19959 MW-19H **Lab ID: 30537388029** Collected: 10/31/22 12:15 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.468 ± 0.247 (0.384) C:96% T:NA	pCi/L	12/09/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.643U ± 0.367 (0.665) C:83% T:89%	pCi/L	12/09/22 14:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.11 ± 0.614 (1.05)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19960 MW-20H **Lab ID: 30537388030** Collected: 10/31/22 13:00 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.338 ± 0.200 (0.304) C:100% T:NA	pCi/L	12/09/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.808 ± 0.391 (0.669) C:83% T:87%	pCi/L	12/09/22 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.15 ± 0.591 (0.973)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19961 MW-22H **Lab ID: 30537388031** Collected: 10/31/22 14:02 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.223U ± 0.160 (0.266) C:104% T:NA	pCi/L	12/09/22 08:22	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.231U ± 0.272 (0.569) C:85% T:90%	pCi/L	12/09/22 14:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.454U ± 0.432 (0.835)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19962 MW-6 **Lab ID: 30537388032** Collected: 10/31/22 16:02 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.168U ± 0.147 (0.258) C:98% T:NA	pCi/L	12/09/22 09:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.757 ± 0.363 (0.599) C:82% T:81%	pCi/L	12/12/22 11:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.925 ± 0.510 (0.857)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19962 MW-6 MS **Lab ID: 30537388033** Collected: 10/31/22 16:02 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	107.04 %REC ± NA (NA) C:NA T:NA	pCi/L	12/09/22 09:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	72.65 %REC ± NA (NA) C:NA T:NA	pCi/L	12/12/22 11:41	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19962 MW-6 MSD **Lab ID: 30537388034** Collected: 10/31/22 16:02 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	110.08 %REC 2.80RPD ± NA (NA) C:NA T:NA	pCi/L	12/09/22 09:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	71.19 %REC 2.03 RPD ± NA (NA) C:NA T:NA	pCi/L	12/12/22 11:41	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19963 MW-25H **Lab ID: 30537388035** Collected: 10/31/22 17:07 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.196U ± 0.140 (0.221) C:100% T:NA	pCi/L	12/09/22 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.597U ± 0.346 (0.630) C:83% T:92%	pCi/L	12/09/22 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.793U ± 0.486 (0.851)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19964 MW-25V **Lab ID: 30537388036** Collected: 11/01/22 08:15 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0485U ± 0.0962 (0.223) C:100% T:NA	pCi/L	12/09/22 08:24	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.496U ± 0.298 (0.542) C:87% T:92%	pCi/L	12/09/22 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.545U ± 0.394 (0.765)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19965 MW-23V **Lab ID: 30537388037** Collected: 11/01/22 09:14 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.229 ± 0.152 (0.220) C:102% T:NA	pCi/L	12/09/22 10:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.427U ± 0.298 (0.563) C:85% T:86%	pCi/L	12/09/22 14:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.656U ± 0.450 (0.783)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19966 MW-23H **Lab ID: 30537388038** Collected: 11/01/22 10:16 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.206U ± 0.153 (0.255) C:100% T:NA	pCi/L	12/09/22 10:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.377U ± 0.284 (0.549) C:86% T:91%	pCi/L	12/09/22 14:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.583U ± 0.437 (0.804)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC19967 MW-23H Dup **Lab ID: 30537388039** Collected: 11/01/22 10:16 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.382 ± 0.198 (0.266) C:102% T:NA	pCi/L	12/09/22 10:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.326U ± 0.299 (0.606) C:89% T:88%	pCi/L	12/09/22 14:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.708U ± 0.497 (0.872)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC19968 FB-3 Lab ID: 30537388040 Collected: 11/01/22 10:45 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	-0.0339U ± 0.0838 (0.268) C:102% T:NA	pCi/L	12/09/22 10:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0953U ± 0.272 (0.611) C:89% T:89%	pCi/L	12/09/22 14:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0953U ± 0.356 (0.879)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC20099 MW-20V Lab ID: 30537388041 Collected: 11/01/22 14:05 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.433 ± 0.206 (0.244) C:101% T:NA	pCi/L	12/09/22 10:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.440U ± 0.321 (0.624) C:86% T:90%	pCi/L	12/09/22 14:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.873 ± 0.527 (0.868)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC20100 MW-13 **Lab ID: 30537388042** Collected: 11/01/22 14:54 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.249U ± 0.177 (0.286) C:102% T:NA	pCi/L	12/09/22 10:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.320U ± 0.292 (0.587) C:83% T:91%	pCi/L	12/09/22 14:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.569U ± 0.469 (0.873)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC20101 MW-13V **Lab ID: 30537388043** Collected: 11/01/22 15:30 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.382 ± 0.210 (0.316) C:102% T:NA	pCi/L	12/09/22 10:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.551U ± 0.335 (0.619) C:84% T:95%	pCi/L	12/09/22 14:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.933U ± 0.545 (0.935)	pCi/L	12/12/22 15:57	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC20102 MW-8 Lab ID: 30537388044 Collected: 11/02/22 08:02 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.337 ± 0.190 (0.244) C:99% T:NA	pCi/L	12/09/22 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.166U ± 0.276 (0.601) C:87% T:92%	pCi/L	12/12/22 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.503U ± 0.466 (0.845)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC20103 EB-1 Lab ID: 30537388045 Collected: 11/02/22 08:30 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0506U ± 0.117 (0.278) C:98% T:NA	pCi/L	12/09/22 11:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.417U ± 0.316 (0.617) C:80% T:90%	pCi/L	12/12/22 11:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.468U ± 0.433 (0.895)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC20104 MW-10 Lab ID: 30537388046 Collected: 11/02/22 10:30 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.335U ± 0.214 (0.340) C:102% T:NA	pCi/L	12/09/22 11:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.551U ± 0.310 (0.553) C:84% T:89%	pCi/L	12/12/22 11:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.886U ± 0.524 (0.893)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC20105 MW-2 **Lab ID: 30537388047** Collected: 11/02/22 08:35 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0976U ± 0.139 (0.299) C:99% T:NA	pCi/L	12/09/22 11:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.268U ± 0.259 (0.526) C:86% T:87%	pCi/L	12/12/22 11:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.366U ± 0.398 (0.825)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC20106 MW-1 Lab ID: 30537388048 Collected: 11/02/22 10:43 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.886 ± 0.311 (0.253) C:102% T:NA	pCi/L	12/09/22 11:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.07 ± 0.379 (0.513) C:87% T:89%	pCi/L	12/12/22 11:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.96 ± 0.690 (0.766)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC20107 MW-1V Lab ID: 30537388049 Collected: 11/01/22 13:58 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.571 ± 0.251 (0.262) C:100% T:NA	pCi/L	12/09/22 12:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.783 ± 0.362 (0.600) C:81% T:91%	pCi/L	12/12/22 11:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.35 ± 0.613 (0.862)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC20108 MW-16V **Lab ID: 30537388050** Collected: 11/01/22 14:44 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.519 ± 0.224 (0.255) C:98% T:NA	pCi/L	12/09/22 12:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.186U ± 0.276 (0.595) C:80% T:93%	pCi/L	12/12/22 11:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.705U ± 0.500 (0.850)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC20109 MW-14 Lab ID: 30537388051 Collected: 11/01/22 15:31 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.368 ± 0.201 (0.280) C:99% T:NA	pCi/L	12/09/22 12:07	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.160U ± 0.275 (0.600) C:83% T:85%	pCi/L	12/12/22 11:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.528U ± 0.476 (0.880)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: BC20110 MW-15V Lab ID: 30537388052 Collected: 11/02/22 08:27 Received: 11/10/22 11:40 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.857 ± 0.292 (0.272) C:103% T:NA	pCi/L	12/09/22 12:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.600U ± 0.342 (0.607) C:78% T:92%	pCi/L	12/12/22 11:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.46 ± 0.634 (0.879)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

Sample: BC20111 MW-24H **Lab ID: 30537388053** Collected: 11/02/22 10:13 Received: 11/10/22 11:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.568 ± 0.246 (0.267) C:101% T:NA	pCi/L	12/09/22 12:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.477U ± 0.343 (0.663) C:79% T:89%	pCi/L	12/12/22 11:42	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.05 ± 0.589 (0.930)	pCi/L	12/12/22 16:47	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

QC Batch:	546311	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	30537388032, 30537388033, 30537388034, 30537388044, 30537388045, 30537388046, 30537388047, 30537388048, 30537388049, 30537388050, 30537388051, 30537388052, 30537388053		

METHOD BLANK:	2653312	Matrix:	Water
Associated Lab Samples:	30537388032, 30537388033, 30537388034, 30537388044, 30537388045, 30537388046, 30537388047, 30537388048, 30537388049, 30537388050, 30537388051, 30537388052, 30537388053		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0692 ± 0.0747 (0.145) C:99% T:NA	pCi/L	12/09/22 10:33	

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

REPORT OF LABORATORY ANALYSIS

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



QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1390
 Pace Project No.: 30537388

QC Batch: 546307 Analysis Method: EPA 9315
 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
 Laboratory: Pace Analytical Services - Greensburg
 Associated Lab Samples: 30537388017, 30537388018, 30537388019, 30537388024, 30537388025, 30537388026, 30537388027,
 30537388028, 30537388029, 30537388030, 30537388031, 30537388035, 30537388036, 30537388037,
 30537388038, 30537388039, 30537388040, 30537388041, 30537388042, 30537388043

METHOD BLANK: 2653309 Matrix: Water
 Associated Lab Samples: 30537388017, 30537388018, 30537388019, 30537388024, 30537388025, 30537388026, 30537388027,
 30537388028, 30537388029, 30537388030, 30537388031, 30537388035, 30537388036, 30537388037,
 30537388038, 30537388039, 30537388040, 30537388041, 30537388042, 30537388043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0447 ± 0.0626 (0.132) C:102% T:NA	pCi/L	12/09/22 08:18	

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

QC Batch: 546310

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30537388017, 30537388018, 30537388019, 30537388024, 30537388025, 30537388026, 30537388027, 30537388028, 30537388029, 30537388030, 30537388031, 30537388035, 30537388036, 30537388037, 30537388038, 30537388039, 30537388040, 30537388041, 30537388042, 30537388043

METHOD BLANK: 2653311

Matrix: Water

Associated Lab Samples: 30537388017, 30537388018, 30537388019, 30537388024, 30537388025, 30537388026, 30537388027, 30537388028, 30537388029, 30537388030, 30537388031, 30537388035, 30537388036, 30537388037, 30537388038, 30537388039, 30537388040, 30537388041, 30537388042, 30537388043

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0559 ± 0.277 (0.663) C:81% T:88%	pCi/L	12/09/22 14:40	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1390
Pace Project No.: 30537388

QC Batch:	546305	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30537388001, 30537388002, 30537388003, 30537388004, 30537388005, 30537388006, 30537388007, 30537388008, 30537388009, 30537388010, 30537388011, 30537388012, 30537388013, 30537388014, 30537388015, 30537388016, 30537388020, 30537388021, 30537388022, 30537388023

METHOD BLANK: 2653307 Matrix: Water

Associated Lab Samples: 30537388001, 30537388002, 30537388003, 30537388004, 30537388005, 30537388006, 30537388007, 30537388008, 30537388009, 30537388010, 30537388011, 30537388012, 30537388013, 30537388014, 30537388015, 30537388016, 30537388020, 30537388021, 30537388022, 30537388023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0128 ± 0.0500 (0.130) C:98% T:NA	pCi/L	12/08/22 20:03	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

QC Batch: 546306

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30537388001, 30537388002, 30537388003, 30537388004, 30537388005, 30537388006, 30537388007, 30537388008, 30537388009, 30537388010, 30537388011, 30537388012, 30537388013, 30537388014, 30537388015, 30537388016, 30537388020, 30537388021, 30537388022, 30537388023

METHOD BLANK: 2653308

Matrix: Water

Associated Lab Samples: 30537388001, 30537388002, 30537388003, 30537388004, 30537388005, 30537388006, 30537388007, 30537388008, 30537388009, 30537388010, 30537388011, 30537388012, 30537388013, 30537388014, 30537388015, 30537388016, 30537388020, 30537388021, 30537388022, 30537388023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.236 ± 0.295 (0.624) C:86% T:87%	pCi/L	12/09/22 11:34	

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: WMWBARAP_1390

Pace Project No.: 30537388

QC Batch:	546312	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30537388032, 30537388033, 30537388034, 30537388044, 30537388045, 30537388046, 30537388047, 30537388048, 30537388049, 30537388050, 30537388051, 30537388052, 30537388053

METHOD BLANK:	2653313	Matrix:	Water
---------------	---------	---------	-------

Associated Lab Samples: 30537388032, 30537388033, 30537388034, 30537388044, 30537388045, 30537388046, 30537388047, 30537388048, 30537388049, 30537388050, 30537388051, 30537388052, 30537388053

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0727 ± 0.266 (0.604) C:80% T:92%	pCi/L	12/12/22 11:41	

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

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

QUALIFIERS

Project: WMWBARAP_1390
Pace Project No.: 30537388

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1390

Pace Project No.: 30537388

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30537388001	BC19935 MW-18H	EPA 9315	546305		
30537388002	BC19936 MW-7	EPA 9315	546305		
30537388003	BC19937 MW-7 Dup	EPA 9315	546305		
30537388004	BC19938 FB-1	EPA 9315	546305		
30537388005	BC19939 MW-7V	EPA 9315	546305		
30537388006	BC19939 MW-7V MS	EPA 9315	546305		
30537388007	BC19939 MW-7V MSD	EPA 9315	546305		
30537388008	BC19940 MW-8V	EPA 9315	546305		
30537388009	BC19941 MW-9	EPA 9315	546305		
30537388010	BC19942 FB-2	EPA 9315	546305		
30537388011	BC19943 MW-10V	EPA 9315	546305		
30537388012	BC19944 MW-11	EPA 9315	546305		
30537388013	BC19945 MW-12V	EPA 9315	546305		
30537388014	BC19946 MW-12	EPA 9315	546305		
30537388015	BC19947 MW-12 Dup	EPA 9315	546305		
30537388016	BC19948 MW-17V	EPA 9315	546305		
30537388017	BC19949 MW-17H	EPA 9315	546307		
30537388018	BC19949 MW-17H MS	EPA 9315	546307		
30537388019	BC19949 MW-17H MSD	EPA 9315	546307		
30537388020	BC19950 MW-5V	EPA 9315	546305		
30537388021	BC19951 MW-5	EPA 9315	546305		
30537388022	BC19951 MW-5 Dup	EPA 9315	546305		
30537388023	BC19953 MW-4	EPA 9315	546305		
30537388024	BC19954 MW-3	EPA 9315	546307		
30537388025	BC19955 MW-16	EPA 9315	546307		
30537388026	BC19956 MW-15	EPA 9315	546307		
30537388027	BC19957 FB-4	EPA 9315	546307		
30537388028	BC19958 MW-14V	EPA 9315	546307		
30537388029	BC19959 MW-19H	EPA 9315	546307		
30537388030	BC19960 MW-20H	EPA 9315	546307		
30537388031	BC19961 MW-22H	EPA 9315	546307		
30537388032	BC19962 MW-6	EPA 9315	546311		
30537388033	BC19962 MW-6 MS	EPA 9315	546311		
30537388034	BC19962 MW-6 MSD	EPA 9315	546311		
30537388035	BC19963 MW-25H	EPA 9315	546307		
30537388036	BC19964 MW-25V	EPA 9315	546307		
30537388037	BC19965 MW-23V	EPA 9315	546307		
30537388038	BC19966 MW-23H	EPA 9315	546307		
30537388039	BC19967 MW-23H Dup	EPA 9315	546307		
30537388040	BC19968 FB-3	EPA 9315	546307		
30537388041	BC20099 MW-20V	EPA 9315	546307		
30537388042	BC20100 MW-13	EPA 9315	546307		
30537388043	BC20101 MW-13V	EPA 9315	546307		
30537388044	BC20102 MW-8	EPA 9315	546311		
30537388045	BC20103 EB-1	EPA 9315	546311		
30537388046	BC20104 MW-10	EPA 9315	546311		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1390

Pace Project No.: 30537388

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30537388047	BC20105 MW-2	EPA 9315	546311		
30537388048	BC20106 MW-1	EPA 9315	546311		
30537388049	BC20107 MW-1V	EPA 9315	546311		
30537388050	BC20108 MW-16V	EPA 9315	546311		
30537388051	BC20109 MW-14	EPA 9315	546311		
30537388052	BC20110 MW-15V	EPA 9315	546311		
30537388053	BC20111 MW-24H	EPA 9315	546311		
30537388001	BC19935 MW-18H	EPA 9320	546306		
30537388002	BC19936 MW-7	EPA 9320	546306		
30537388003	BC19937 MW-7 Dup	EPA 9320	546306		
30537388004	BC19938 FB-1	EPA 9320	546306		
30537388005	BC19939 MW-7V	EPA 9320	546306		
30537388006	BC19939 MW-7V MS	EPA 9320	546306		
30537388007	BC19939 MW-7V MSD	EPA 9320	546306		
30537388008	BC19940 MW-8V	EPA 9320	546306		
30537388009	BC19941 MW-9	EPA 9320	546306		
30537388010	BC19942 FB-2	EPA 9320	546306		
30537388011	BC19943 MW-10V	EPA 9320	546306		
30537388012	BC19944 MW-11	EPA 9320	546306		
30537388013	BC19945 MW-12V	EPA 9320	546306		
30537388014	BC19946 MW-12	EPA 9320	546306		
30537388015	BC19947 MW-12 Dup	EPA 9320	546306		
30537388016	BC19948 MW-17V	EPA 9320	546306		
30537388017	BC19949 MW-17H	EPA 9320	546310		
30537388018	BC19949 MW-17H MS	EPA 9320	546310		
30537388019	BC19949 MW-17H MSD	EPA 9320	546310		
30537388020	BC19950 MW-5V	EPA 9320	546306		
30537388021	BC19951 MW-5	EPA 9320	546306		
30537388022	BC19951 MW-5 Dup	EPA 9320	546306		
30537388023	BC19953 MW-4	EPA 9320	546306		
30537388024	BC19954 MW-3	EPA 9320	546310		
30537388025	BC19955 MW-16	EPA 9320	546310		
30537388026	BC19956 MW-15	EPA 9320	546310		
30537388027	BC19957 FB-4	EPA 9320	546310		
30537388028	BC19958 MW-14V	EPA 9320	546310		
30537388029	BC19959 MW-19H	EPA 9320	546310		
30537388030	BC19960 MW-20H	EPA 9320	546310		
30537388031	BC19961 MW-22H	EPA 9320	546310		
30537388032	BC19962 MW-6	EPA 9320	546312		
30537388033	BC19962 MW-6 MS	EPA 9320	546312		
30537388034	BC19962 MW-6 MSD	EPA 9320	546312		
30537388035	BC19963 MW-25H	EPA 9320	546310		
30537388036	BC19964 MW-25V	EPA 9320	546310		
30537388037	BC19965 MW-23V	EPA 9320	546310		
30537388038	BC19966 MW-23H	EPA 9320	546310		
30537388039	BC19967 MW-23H Dup	EPA 9320	546310		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1390

Pace Project No.: 30537388

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30537388040	BC19968 FB-3	EPA 9320	546310		
30537388041	BC20099 MW-20V	EPA 9320	546310		
30537388042	BC20100 MW-13	EPA 9320	546310		
30537388043	BC20101 MW-13V	EPA 9320	546310		
30537388044	BC20102 MW-8	EPA 9320	546312		
30537388045	BC20103 EB-1	EPA 9320	546312		
30537388046	BC20104 MW-10	EPA 9320	546312		
30537388047	BC20105 MW-2	EPA 9320	546312		
30537388048	BC20106 MW-1	EPA 9320	546312		
30537388049	BC20107 MW-1V	EPA 9320	546312		
30537388050	BC20108 MW-16V	EPA 9320	546312		
30537388051	BC20109 MW-14	EPA 9320	546312		
30537388052	BC20110 MW-15V	EPA 9320	546312		
30537388053	BC20111 MW-24H	EPA 9320	546312		
30537388001	BC19935 MW-18H	Total Radium Calculation	553176		
30537388002	BC19936 MW-7	Total Radium Calculation	553176		
30537388003	BC19937 MW-7 Dup	Total Radium Calculation	553176		
30537388004	BC19938 FB-1	Total Radium Calculation	553176		
30537388005	BC19939 MW-7V	Total Radium Calculation	553176		
30537388008	BC19940 MW-8V	Total Radium Calculation	553176		
30537388009	BC19941 MW-9	Total Radium Calculation	553176		
30537388010	BC19942 FB-2	Total Radium Calculation	553176		
30537388011	BC19943 MW-10V	Total Radium Calculation	553176		
30537388012	BC19944 MW-11	Total Radium Calculation	553176		
30537388013	BC19945 MW-12V	Total Radium Calculation	553176		
30537388014	BC19946 MW-12	Total Radium Calculation	553176		
30537388015	BC19947 MW-12 Dup	Total Radium Calculation	553176		
30537388016	BC19948 MW-17V	Total Radium Calculation	553176		
30537388017	BC19949 MW-17H	Total Radium Calculation	553177		
30537388020	BC19950 MW-5V	Total Radium Calculation	553176		
30537388021	BC19951 MW-5	Total Radium Calculation	553176		
30537388022	BC19951 MW-5 Dup	Total Radium Calculation	553176		
30537388023	BC19953 MW-4	Total Radium Calculation	553176		
30537388024	BC19954 MW-3	Total Radium Calculation	553177		
30537388025	BC19955 MW-16	Total Radium Calculation	553177		
30537388026	BC19956 MW-15	Total Radium Calculation	553177		
30537388027	BC19957 FB-4	Total Radium Calculation	553177		
30537388028	BC19958 MW-14V	Total Radium Calculation	553177		
30537388029	BC19959 MW-19H	Total Radium Calculation	553177		
30537388030	BC19960 MW-20H	Total Radium Calculation	553177		
30537388031	BC19961 MW-22H	Total Radium Calculation	553177		
30537388032	BC19962 MW-6	Total Radium Calculation	553193		
30537388035	BC19963 MW-25H	Total Radium Calculation	553177		
30537388036	BC19964 MW-25V	Total Radium Calculation	553177		
30537388037	BC19965 MW-23V	Total Radium Calculation	553177		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WMWBARAP_1390
Pace Project No.: 30537388

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30537388038	BC19966 MW-23H	Total Radium Calculation	553177		
30537388039	BC19967 MW-23H Dup	Total Radium Calculation	553177		
30537388040	BC19968 FB-3	Total Radium Calculation	553177		
30537388041	BC20099 MW-20V	Total Radium Calculation	553177		
30537388042	BC20100 MW-13	Total Radium Calculation	553177		
30537388043	BC20101 MW-13V	Total Radium Calculation	553177		
30537388044	BC20102 MW-8	Total Radium Calculation	553193		
30537388045	BC20103 EB-1	Total Radium Calculation	553193		
30537388046	BC20104 MW-10	Total Radium Calculation	553193		
30537388047	BC20105 MW-2	Total Radium Calculation	553193		
30537388048	BC20106 MW-1	Total Radium Calculation	553193		
30537388049	BC20107 MW-1V	Total Radium Calculation	553193		
30537388050	BC20108 MW-16V	Total Radium Calculation	553193		
30537388051	BC20109 MW-14	Total Radium Calculation	553193		
30537388052	BC20110 MW-15V	Total Radium Calculation	553193		
30537388053	BC20111 MW-24H	Total Radium Calculation	553193		

REPORT OF LABORATORY ANALYSIS

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	Page : 3 Of 4
Company: Alabama Power Company	Report To: Brooke Caton	Attention: Brooke Caton	
Address: 744 Highway 87 GSC Bldg #8 Calera, AL 35040	Copy To: Renee Jernigan & Blaine Denton	Company Name: Alabama Power Co.	
Email To: tbwill@southernco.com	Purchase Order #: APC10755638	Address: 744 Highway 87 GSC Bldg #8	Regulatory Agency
Phone: 205-664-6101 Fax:	Project Name: Plant Barry Ash Pond	Pace Quote: CCR	State / Location
Requested Due Date: 28 days	Project Number: WMWBARAP_1390	Pace Project Manager: Skyler Richmond	AL
		Pace Profile #: 16788	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique				Sample Duplicate	Matrix Spike/Matrix Spike Duplicate	Field Filtered	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)				
										DATE	TIME	# OF CONTAINERS	Preservatives				Analyses Test	EPA 9315	EPA 9320	Total Radium Sum
													Unpreserved	H2SO4	HNO3					
1	BC19959	MW-19H	APCO-BY-AP-MW-19H	APCO_Barry_AshPond				GW	G	10/31/2022	12:15	1		X	X	X				
2	BC19960	MW-20H	APCO-BY-AP-MW-20H	APCO_Barry_AshPond				GW	G	10/31/2022	13:00	1		X	X	X				
3	BC19961	MW-22H	APCO-BY-AP-MW-22H	APCO_Barry_AshPond				GW	G	10/31/2022	14:02	3		X	X	X				
4	BC19962	MW-6	APCO-BY-AP-MW-6	APCO_Barry_AshPond	x			GW	G	10/31/2022	16:02	1		X	X	X				
5	BC19963	MW-25H	APCO-BY-AP-MW-25	APCO_Barry_AshPond				GW	G	10/31/2022	17:07	1		X	X	X				
6	BC19964	MW-25V	APCO-BY-AP-MW-25V	APCO_Barry_AshPond				GW	G	11/1/2022	8:15	1		X	X	X				
7	BC19965	MW-23V	APCO-BY-AP-MW-23V	APCO_Barry_AshPond				GW	G	11/1/2022	9:14	1		X	X	X				
8	BC19966	MW-23H	APCO-BY-AP-MW-23H	APCO_Barry_AshPond				GW	G	11/1/2022	10:16	1		X	X	X				
9	BC19967	MW-23H Dup	APCO-BY-AP-MW-23H	APCO_Barry_AshPond	x			GW	G	11/1/2022	10:16	1		X	X	X				
10	BC19968	FB-3	APCO-BY-AP-FB-03	APCO_Barry_AshPond				GW	G	11/1/2022	10:45	1		X	X	X				
11	BC20099	MW-20V	APCO-BY-AP-MW-20V	APCO_Barry_AshPond				GW	G	11/1/2022	14:05	1		X	X	X				
12	BC20100	MW-13	APCO-BY-AP-MW-13	APCO_Barry_AshPond				GW	G	11/1/2022	14:54	1		X	X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Brooke Caton/ APC GTL	11/4/2022	12:39				

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:					
Dallas Gentry					
SIGNATURE of SAMPLER:		DATE Signed:			

Quality Control Sample Performance Assessment



Analyst: **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: RMS
Date: 11/16/2022
Worklist: 69944
Matrix: WT

Method Blank Assessment	
MB Sample ID	2653307
MB concentration:	0.013
MB 2 Sigma CSU:	0.050
MB MDC:	0.130
MB Numerical Performance Indicator:	0.50
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:		LCS069944	12/9/2022
Spike I.D.:	19-033		19-033
Decay Corrected Spike Concentration (pCi/mL):	24.021		24.021
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.505		0.504
Target Conc. (pCi/L, g, F):	4.752		4.769
Uncertainty (Calculated):	0.057		0.057
Result (pCi/L, g, F):	5.203		4.787
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.895		0.828
Numerical Performance Indicator:	0.99		0.04
Percent Recovery:	109.49%		100.37%
Status vs Numerical Indicator:	Pass		Pass
Status vs Recovery:	N/A		N/A
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS069944
Duplicate Sample I.D.:	LCS069944
Sample Result (pCi/L, g, F):	5.203
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.895
Sample Duplicate Result (pCi/L, g, F):	4.787
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.828
Are sample and/or duplicate results below RL?	NO
Sample Numerical Performance Indicator:	0.670
Duplicate Numerical Performance Indicator:	8.69%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/31/2022		
Sample I.D.:	30537388005		
Sample MS I.D.:	30537388006		
Sample MSD I.D.:	30537388007		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.022		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.293		
MS Target Conc. (pCi/L, g, F):	16.381		
MSD Aliquot (L, g, F):	0.262		
MSD Target Conc. (pCi/L, g, F):	18.333		
MS Spike Uncertainty (calculated):	0.197		
MSD Spike Uncertainty (calculated):	0.220		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.088		
Sample Matrix Spike Result:	16.425		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.620		
Sample Matrix Spike Duplicate Result:	19.180		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.057		
MS Numerical Performance Indicator:	-0.032		
MSD Numerical Performance Indicator:	0.485		
MS Percent Recovery:	99.73%		
MSD Percent Recovery:	104.14%		
MS Status vs Numerical Indicator:	Pass		
MSD Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	N/A		
MSD Status vs Recovery:	N/A		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

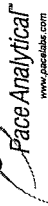
Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30537388005
Sample MS I.D.:	30537388006
Sample MSD I.D.:	30537388007
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	16.425
Sample Matrix Spike Duplicate Result:	2.620
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	19.180
Duplicate Numerical Performance Indicator:	3.057
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	-1.342
MS/MSD Duplicate Status vs Numerical Indicator:	4.32%
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	N/A
	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

WAM 12/19/22
JUN 12 9 22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: VAL
 Date: 11/16/2022
 Worklist: 69945
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2653308
MB concentration:	0.236
MB 2 Sigma CSU:	0.295
MB MDC:	0.624
MB Numerical Performance Indicator:	1.57
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	N
LCS69945	LCS069945
Count Date:	12/9/2022
Spike I.D.:	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.445
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.804
Target Conc. (pCi/L, g, F):	4.835
Uncertainty (Calculated):	0.348
Result (pCi/L, g, F):	4.207
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.939
Numerical Performance Indicator:	-1.23
Percent Recovery:	87.02%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

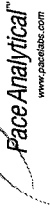
Comments:

VAL
12/12/22

Sample Matrix Spike Control Assessment	
Sample Collection Date:	10/31/2022
Sample I.D.:	30537388005
Sample MS I.D.:	30537388006
Sample MSD I.D.:	30537388007
Spike I.D.:	22-029
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	19.697
Spike Volume Used in MSD (mL):	0.40
Spike Volume Used in MSD (mL):	0.40
MS Aliquot (L, g, F):	0.809
MS Target Conc. (pCi/L, g, F):	9.741
MSD Aliquot (L, g, F):	0.806
MSD Target Conc. (pCi/L, g, F):	9.774
MS Spike Uncertainty (calculated):	0.701
MSD Spike Uncertainty (calculated):	0.704
Sample Result:	0.244
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.255
Sample Matrix Spike Result:	8.879
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.785
Sample Matrix Spike Duplicate Result:	8.670
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.726
MS Numerical Performance Indicator:	-1.120
MSD Numerical Performance Indicator:	-1.404
MS Percent Recovery:	88.65%
MSD Percent Recovery:	86.21%
MS Status vs Numerical Indicator:	Pass
MSD Status vs Numerical Indicator:	Pass
MS Status vs Recovery:	Pass
MSD Status vs Recovery:	Pass
MS/MSD Upper % Recovery Limits:	135%
MS/MSD Lower % Recovery Limits:	60%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30537388005
Sample MS I.D.:	30537388006
Sample MSD I.D.:	30537388007
Sample Matrix Spike Result:	8.879
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.785
Sample Matrix Spike Duplicate Result:	8.670
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.726
Duplicate Numerical Performance Indicator:	0.165
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	2.79%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: RMS
Date: 11/16/2022
Worklist: 69946
Matrix: WT

Method Blank Assessment	
MB Sample ID	2653309
MB concentration:	0.045
MB 2 Sigma CSU:	0.063
MB MDC:	0.132
MB Numerical Performance Indicator:	1.40
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCS (Y or N)?	Y
Count Date:	12/9/2022	LCS69946	12/9/2022
Spike I.D.:	19-033		19-033
Decay Corrected Spike Concentration (pCi/mL):	24.021		24.021
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.509		0.505
Target Conc. (pCi/L, g, F):	4.723		4.753
Uncertainty (Calculated):	0.057		0.057
Result (pCi/L, g, F):	4.458		4.679
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.771		0.809
Numerical Performance Indicator:	-0.67		-0.18
Percent Recovery:	94.36%		98.44%
Status vs Numerical Indicator:	Pass		Pass
Status vs Recovery:	N/A		N/A
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS69946
Duplicate Sample I.D.:	LCS69946
Sample Result (pCi/L, g, F):	4.458
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.771
Sample Duplicate Result (pCi/L, g, F):	4.679
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.809
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.389
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.21%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/31/2022		
Sample I.D.:	30537388017		
Sample MS I.D.:	30537388018		
Sample MSD I.D.:	30537388019		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.022		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.258		
MS Target Conc. (pCi/L, g, F):	18.590		
MSD Aliquot (L, g, F):	0.236		
MSD Target Conc. (pCi/L, g, F):	20.362		
MS Spike Uncertainty (calculated):	0.223		
MSD Spike Uncertainty (calculated):	0.244		
Sample Result:	0.414		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.215		
Sample Matrix Spike Result:	18.439		
Sample Matrix Spike Duplicate Result:	2.926		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	20.969		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.333		
MS Numerical Performance Indicator:	-0.376		
MSD Numerical Performance Indicator:	0.113		
MS Percent Recovery:	96.96%		
MSD Percent Recovery:	100.95%		
MS Status vs Numerical Indicator:	Pass		
MSD Status vs Numerical Indicator:	Pass		
MS Status vs Recovery:	N/A		
MSD Status vs Recovery:	N/A		
MS/MSD Upper % Recovery Limits:	125%		
MS/MSD Lower % Recovery Limits:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30537388017
Sample MS I.D.:	30537388018
Sample MSD I.D.:	30537388019
Sample Matrix Spike Result:	18.439
Sample Matrix Spike Duplicate Result:	2.926
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	20.969
Duplicate Numerical Performance Indicator:	3.333
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	-1.118
MS/MSD Duplicate Status vs Numerical Indicator:	4.03%
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

VAM 12/19/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JJS1
Date: 11/16/2022
Worklist: 69947
Matrix: WWT

Method Blank Assessment	
MB Sample ID	2653311
MB concentration:	-0.056
MB 2 Sigma CSU:	0.277
MB MDC:	0.663
MB Numerical Performance Indicator:	-0.39
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD69947	LCSD69947
Count Date:	12/9/2022
Spike I.D.:	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.445
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.802
Target Conc. (pCi/L, g, F):	4.848
Uncertainty (Calculated):	0.349
Result (pCi/L, g, F):	3.496
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.809
Numerical Performance Indicator:	-3.01
Percent Recovery:	72.12%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	See Below ##
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

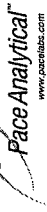
Comments:

VAZ
12/12/22

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/31/2022	
Sample I.D.:		30537388017	
Sample MS I.D.:		30537388018	
Sample MSD I.D.:		30537388019	
Spike I.D.:		22-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		19.697	
Spike Volume Used in MS (mL):		0.40	
Spike Volume Used in MSD (mL):		0.40	
MS Aliquot (L, g, F):		0.806	
MS Target Conc. (pCi/L, g, F):		9.772	
MSD Aliquot (L, g, F):		0.805	
MSD Target Conc. (pCi/L, g, F):		9.786	
MS Spike Uncertainty (calculated):		0.704	
MSD Spike Uncertainty (calculated):		0.705	
Sample Result:		0.514	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.334	
Sample Matrix Spike Result:		7.873	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		1.598	
Sample Matrix Spike Duplicate Result:		6.834	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.412	
MS Numerical Performance Indicator:		-2.661	
MSD Numerical Performance Indicator:		-4.212	
MS Percent Recovery:		75.30%	
MSD Percent Recovery:		64.58%	
MS Status vs Numerical Indicator:		Warning	
MSD Status vs Numerical Indicator:		Fail****	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30537388017
Sample MS I.D.:	30537388018
Sample MSD I.D.:	30537388019
Sample Matrix Spike Result:	7.873
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.598
Sample Matrix Spike Duplicate Result:	6.834
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.412
Duplicate Numerical Performance Indicator:	0.955
Duplicate Numerical Performance Indicator (Based on the Percent Recoveries) MS/MSD Duplicate RPD:	15.32%
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Quality Control Sample Performance Assessment



Analyst: **Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-226
Analyst: RMS
Date: 11/17/2022
Worklist: 69948
Matrix: WT

Method Blank Assessment	
MB Sample ID	2653312
MB concentration:	0.069
MB 2 Sigma CSU:	0.075
MB MDC:	0.145
MB Numerical Performance Indicator:	1.81
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment		LCS D (Y or N)?	Y
Count Date:	12/9/2022	LCS D69948	12/9/2022
Spike I.D.:	19-033		19-033
Decay Corrected Spike Concentration (pCi/mL):	24.021		24.021
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.509		0.505
Target Conc. (pCi/L, g, F):	4.722		4.761
Uncertainty (Calculated):	0.057		0.057
Result (pCi/L, g, F):	4.432		4.419
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.773		0.774
Numerical Performance Indicator:	-0.73		-0.86
Percent Recovery:	93.86%		92.82%
Status vs Numerical Indicator:	Pass		Pass
Status vs Recovery:	N/A		N/A
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment	
Sample I.D.:	LCS69948
Duplicate Sample I.D.:	LCS D69948
Duplicate Result (pCi/L, g, F):	4.432
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.773
Sample Duplicate Result (pCi/L, g, F):	4.419
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.774
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.022
Duplicate Status vs Numerical Indicator:	1.11%
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

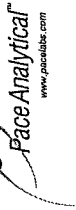
Comments:

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:	10/31/2022		
Sample I.D.:	30537388032		
Sample MS I.D.:	30537388033		
Sample MSD I.D.:	30537388034		
Spike I.D.:	19-033		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.022		
Spike Volume Used in MS (mL):	0.20		
Spike Volume Used in MSD (mL):	0.20		
MS Aliquot (L, g, F):	0.265		
MS Target Conc. (pCi/L, g, F):	18.129		
MSD Aliquot (L, g, F):	0.304		
MSD Target Conc. (pCi/L, g, F):	15.816		
MS Spike Uncertainty (calculated):	0.218		
MSD Spike Uncertainty (calculated):	0.190		
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.168		
Sample Matrix Spike Result:	0.147		
Matrix Spike Duplicate Result:	19.573		
MS Numerical Performance Indicator:	3.090		
MS Percent Recovery:	17.579		
MS Status vs Numerical Indicator:	2.790		
MS/MSD Upper % Recovery Limits:	0.806		
MS/MSD Lower % Recovery Limits:	1.116		
MS/MSD Duplicate Status vs Numerical Indicator:	107.04%		
MS/MSD Duplicate Status vs RPD:	110.08%		
MS/MSD Duplicate Status vs RPD Limit:	Pass		
MS/MSD Duplicate Status vs RPD:	Pass		
MS/MSD Duplicate Status vs RPD:	N/A		
MS/MSD Duplicate Status vs RPD:	N/A		
MS/MSD Duplicate Status vs RPD:	125%		
MS/MSD Duplicate Status vs RPD:	75%		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30537388032
Sample MS I.D.:	30537388033
Sample MSD I.D.:	30537388034
Sample Matrix Spike Result:	19.573
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	3.090
Sample Matrix Spike Duplicate Result:	17.579
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	2.790
Duplicate Numerical Performance Indicator:	0.939
Duplicate Status vs Numerical Indicator:	2.80%
Duplicate Status vs RPD:	Pass
Duplicate Status vs RPD:	N/A
Duplicate Status vs RPD:	25%

Handwritten signature: JAM 12/9/22

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: ZPC
Date: 11/16/2022
Worklist: 69949
Matrix: WT

Method Blank Assessment	
MB Sample ID	2653313
MB concentration:	0.073
M/B 2 Sigma CSU:	0.266
MB MDC:	0.604
MB Numerical Performance Indicator:	0.53
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD69949	LCSD69949
Count Date:	12/12/2022
Spike I.D.:	22-029
Decay Corrected Spike Concentration (pCi/mL):	19.426
Volume Used (mL):	0.20
Aliquot Volume (L, g, F):	0.815
Target Conc. (pCi/L, g, F):	4.767
Uncertainty (Calculated):	0.343
Result (pCi/L, g, F):	3.757
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	0.870
Numerical Performance Indicator:	-2.11
Percent Recovery:	78.82%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	
Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% RPD Limit:	

Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:		10/31/2022	
Sample I.D.:		30537388032	
Sample MS I.D.:		30537388033	
Sample MSD I.D.:		30537388034	
Spike I.D.:		22-029	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		19.696	
Spike Volume Used in MS (mL):		0.40	
Spike Volume Used in MSD (mL):		0.40	
MS Aliquot (L, g, F):		0.804	
MS Target Conc. (pCi/L, g, F):		9.795	
MSD Aliquot (L, g, F):		0.805	
MSD Target Conc. (pCi/L, g, F):		9.789	
MS Spike Uncertainty (calculated):		0.705	
MSD Spike Uncertainty (calculated):		0.705	
Sample Result:		0.757	
Sample Result 2 Sigma CSU (pCi/L, g, F):		0.363	
Sample Matrix Spike Result:		7.873	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		1.571	
Sample Matrix Spike Duplicate Result:		7.725	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		1.539	
MS Numerical Performance Indicator:		-2.983	
MSD Numerical Performance Indicator:		-3.193	
MS Percent Recovery:		72.65%	
MSD Percent Recovery:		71.19%	
MS Status vs Numerical Indicator:		Warning	
MSD Status vs Numerical Indicator:		Fail****	
MS Status vs Recovery:		Pass	
MSD Status vs Recovery:		Pass	
MS/MSD Upper % Recovery Limits:		135%	
MS/MSD Lower % Recovery Limits:		60%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	30537388032
Sample MS I.D.:	30537388033
Sample MSD I.D.:	30537388034
Sample Matrix Spike Result:	7.873
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.571
Sample Matrix Spike Duplicate Result:	7.725
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.539
Duplicate Numerical Performance Indicator:	0.132
Duplicate Numerical Performance Indicator RPD:	2.03%
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	
MS/MSD Duplicate Status vs Numerical Indicator:	Pass
MS/MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Amal/22

VAC
12/12/22

Appendix D



Appendix D. Horizontal Groundwater Flow Velocity Calculations Plant Barry Ash Pond

2022 1st Semi-Annual Monitoring Event								
Date of Measurement	MW-2	MW-9	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	K (ft/day)	n	(ft/d)	(ft/yr)
5/23/2022	3.57	2.24	4,420.20	0.00030	9.40	0.25	0.0113	4.13
	MW-2	MW-10	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	K (ft/day)	n	(ft/d)	(ft/yr)
5/23/2022	3.57	1.95	4714.20	0.00034	9.40	0.25	0.0129	4.72

2022 2nd Semi-Annual Monitoring Event								
Date of Measurement	MW-2	MW-9	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	K (ft/day)	n	(ft/d)	(ft/yr)
10/31/2022	3.61	1.87	4,420.20	0.00039	9.40	0.25	0.0148	5.40
	MW-2	MW-10	Distance	Hydraulic Gradient	Hydraulic Conductivity	Effective Porosity	Calculated Groundwater Flow Velocity	Calculated Groundwater Flow Velocity
	h_1 (ft)	h_2 (ft)	Δl (ft)	$\Delta h/\Delta l$ (ft/ft)	K (ft/day)	n	(ft/d)	(ft/yr)
10/31/2022	3.61	1.58	4564.34	0.00044	9.40	0.25	0.0167	6.10

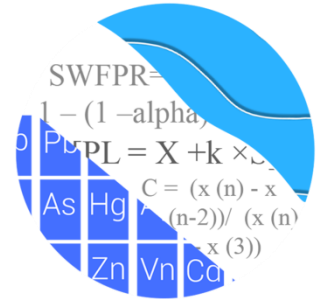
Notes:
ft = feet
ft/d = feet/day
ft/ft = feet per foot
ft/yr = feet per year

Appendix E

GROUNDWATER STATS CONSULTING

July 21, 2022

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Barry Ash Pond
1st Semi-Annual Statistical Analysis – May 2022

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the May 2022 1st Semi-Annual sample event for Alabama Power Company's Plant Barry Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** BY-UP-MW-1, BY-UP-MW-2, BY-UP-MW-3, and BY-UP-MW-4
- **Downgradient wells:** BY-AP-MW-1, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- **Delineation wells:** BY-AP-MW-1V, BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-10V, BY-AP-MW-12V, BY-AP-MW-13V, BY-AP-MW-14V, BY-AP-MW-15V, BY-AP-MW-16V, BY-AP-MW-17H, BY-AP-MW-17V, BY-AP-MW-18H, BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-20V, BY-AP-MW-22H, BY-AP-MW-23H, BY-AP-MW-23V, BY-AP-MW-24H, BY-AP-MW-25H, and BY-AP-MW-25VM
- **Piezometer:** BY-AP-MW-15VM

Data from delineation wells are included on time series and box plots but did not require formal statistics. Piezometer BY-AP-MW-15VM only monitors water levels; therefore, it is not included in this analysis.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed Andrew Collins, Project Manager of Groundwater Stats Consulting.

The CCR program consists of the following constituents:

Appendix III (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Appendix IV (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the time series plots and interwell tests, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. For calculating intrawell prediction limits, however, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells.

In the April 2020 background screening, Appendix III data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. A summary of the background screening is presented in a later section of this letter. Power curves are provided in this report to

demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples (Intrawell): 12
- # Background Samples (Interwell): 71
- # Constituents: 7
- # Downgradient wells: 16

Summary of Statistical Methods – Appendix III Parameters

Based on the Statistical Analysis Plan, the following statistical methods are used to evaluate the Appendix III parameters:

- Intrawell prediction limits, combined with a 1-of-2 resample plan for pH and sulfate
- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after careful screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Appendix III Background Screening – April 2020

Outlier Analysis

Background data through May 2019 for Appendix III parameters were screened for outliers using Tukey's test for outliers and/or visual screening, and identified outliers were flagged with "o" in the database and shown in a lighter font on the time series graphs and data pages. A list of flagged outliers is included with this report (Appendix C). Flagged values are excluded from background in the calculation of statistical limits in order to better represent background conditions and to produce limits that are conservative from a regulatory perspective. No seasonal patterns were visually apparent on any of the time series plots, and no seasonal adjustments were made.

Trend Tests

The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included in the background used for construction of prediction limits. This step serves to reduce variation

in background and better represent current background conditions. The results of the trend analyses showed several statistically significant increasing and decreasing trends. However, the background time period is short, and all trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to any of the records. Detailed trend test results were included with the April 2020 screening report.

Appendix III – Evaluation of Statistical Approach

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

Based on the results of the screening and use of the ANOVA, intrawell limits were initially recommended for sulfate, and interwell methods were recommended for boron, calcium, chloride, fluoride, pH and TDS. However, as shown on the boxplots, the upgradient levels for pH are very low (acid) and are not representative of downgradient water quality. Therefore, intrawell limits were recommended for pH as well—unless or until a future study confirms that those low levels are representative of unimpacted downgradient conditions.

Appendix III Background Update – Fall 2021

Outlier Analysis

Proposed background data were reviewed to identify any newly suspected outliers, since the last background update described above, at all wells for pH and sulfate through May 2021 and at upgradient wells for boron, calcium, chloride, fluoride, and TDS through November 2021. Visual screening is used to identify potential outliers. When values are identified as outliers, these measurements are flagged with “o” and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as

well as in a lighter font on the accompanying data pages. During the background update, the highest values for sulfate among existing background data in wells BY-MW-AP-13 and BY-MW-AP-14 were flagged to construct statistical limits that are conservative (i.e., lower) from a regulatory perspective. Additionally, the highest values among compliance data for sulfate in wells BY-MW-AP-MW-5 and MW-AP-16 were flagged in order to incorporate only compliance data that were of similar concentrations to existing background data.

Mann-Whitney

For constituents requiring intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through May 2019 to compliance data through May 2021. When no statistically significant difference in medians between the two groups is found at a 99% confidence level, background data may be updated with newer compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found the following well/constituent pairs:

Increase:

- Sulfate: BY-AP-MW-1, BY-AP-MW-8, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14

Decrease:

- pH: BY-UP-MW-3, BY-UP-MW-4, BY-AP-MW-6, BY-AP-MW-13, BY-AP-MW-14

Note that the Mann-Whitney could not test sulfate in wells BY-AP-MW-5 and BY-MW-AP-16 because a minimum of 4 compliance samples were not available. However, because the available compliance samples were similar in concentration to background measurements, the respective records were updated with more recent samples.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data but will be reconsidered in the future. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

Due to more recent data for pH in all wells being fairly similar to background and better representing the groundwater quality in the absence of suspected impacts from practices at the facility, these background data sets were updated. While the Mann-Whitney test did not identify statistically significant differences for sulfate at several wells, these records

were not updated with more recent data due to the observed increase in concentrations in more recent samples compared to background samples. The following records were not updated during the 2021 background update, and a summary follows this report (Background Date Ranges):

- Sulfate: BY-MW-AP-1, BY-MW-AP-8, BY-MW-AP-9, BY-MW-AP-10, BY-MW-AP-11, BY-MW-AP-12, BY-MW-AP-13, and BY-MW-AP-14

Trend Tests

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data through October 2021 from upgradient wells for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data may be deselected prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Calcium: BY-UP-MW-3 and BY-UP-MW-4
- Fluoride: BY-UP-MW-2
- TDS: BY-UP-MW-1, BY-UP-MW-2, and BY-UP-MW-4

Decreasing

- Chloride: BY-UP-MW-2

Although statistically significant trends were identified for the well/constituent pairs listed above, the magnitudes of the trends are marginal relative to the respective concentrations; therefore, no adjustments were required for these well/constituent pairs at this time. Additionally, concentrations among all upgradient wells remain similar to each other. Therefore, all data from upgradient wells were used to construct interwell prediction limits.

Evaluation of Appendix III Parameters – May 2022

Intrawell prediction limits were constructed for pH and sulfate using screened background data through May 2021 at each well. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The May 2022 sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. Intrawell prediction limits combined with a 1-of-2 verification strategy were constructed for pH and sulfate (Figure D). Background data will be re-evaluated for updating background limits when a minimum of 4 compliance samples are available.

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, and TDS using upgradient well data through May 2022 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The May 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present. Note that during this event, the reporting limit for fluoride increased from 0.1 mg/L to 0.125 mg/L, which resulted in a slight change to the interwell prediction limit. This change did not result in any additional exceedances.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. Summary tables and complete graphical results for intrawell and interwell prediction limits may be found following this letter (Figures D and E, respectively). Exceedances for both intrawell and interwell prediction limits were identified for the following well/constituent pairs:

Intrawell:

- pH: BY-UP-MW-1, BY-UP-MW-2, BY-UP-MW-3, BY-UP-MW-4 (all upgradient), BY-AP-MW-1, BY-AP-MW-2, BY-AP-MW-6, BY-AP-MW-8, BY-AP-MW-10, and BY-AP-MW-13
- Sulfate: BY-AP-MW-1, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, and BY-AP-MW-14

Interwell:

- Boron: BY-AP-MW-1, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, and BY-AP-MW-16

- Calcium: BY-AP-MW-1, BY-AP-MW-2, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Chloride: BY-AP-MW-1, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Fluoride: BY-AP-MW-15
- TDS: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BY-AP-MW-10 and BY-AP-MW-16
- Calcium: BY-UP-MW-3 (upgradient), BY-UP-MW-4 (upgradient), BY-AP-MW-7, BY-AP-MW-10, and BY-AP-MW-12
- Chloride: BY-AP-MW-1, BY-AP-MW-3, BY-AP-MW-7, BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Fluoride: BY-UP-MW-1, BY-UP-MW-2, BY-UP-MW-3, and BY-UP-MW-4 (all upgradient)
- Sulfate: BY-AP-MW-1, BY-AP-MW-8, BY-AP-MW-11, BY-AP-MW-12, and BY-AP-MW-14
- TDS: BY-UP-MW-1 (upgradient), BY-UP-MW-4 (upgradient), BY-AP-MW-10, and BY-AP-MW-15

Decreasing:

- Boron: BY-AP-MW-8
- Calcium: BY-AP-MW-8
- Chloride: BY-UP-MW-2, BY-UP-MW-3, and BY-UP-MW-4 (all upgradient)
- pH: BY-UP-MW-2 (upgradient), BY-UP-MW-3 (upgradient), BY-UP-MW-4 (upgradient), BY-AP-MW-2, and BY-AP-MW-13

Evaluation of Appendix IV Parameters – May 2022

Data from upgradient wells for Appendix IV parameters were assessed for outliers during the previous analysis. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management (ADEM), the Groundwater Protections Standards (GWPS) were updated during the 2021 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using tolerance limits constructed from pooled upgradient well data through October 2021 (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed.

Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure H) in the confidence interval comparisons described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through May 2022 for each of the Appendix IV parameters (Figure I). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects.

As mentioned above, well/constituent pairs with 100% non-detects did not require statistics and were, therefore, deselected prior to construction confidence intervals. A list of deselected well/constituent pairs also follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. Exceedances were identified for the following well/constituent pairs:

- Arsenic: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Cobalt: BY-AP-MW-7 and BY-AP-MW-15

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Barry Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Easton Rayner
Groundwater Analyst

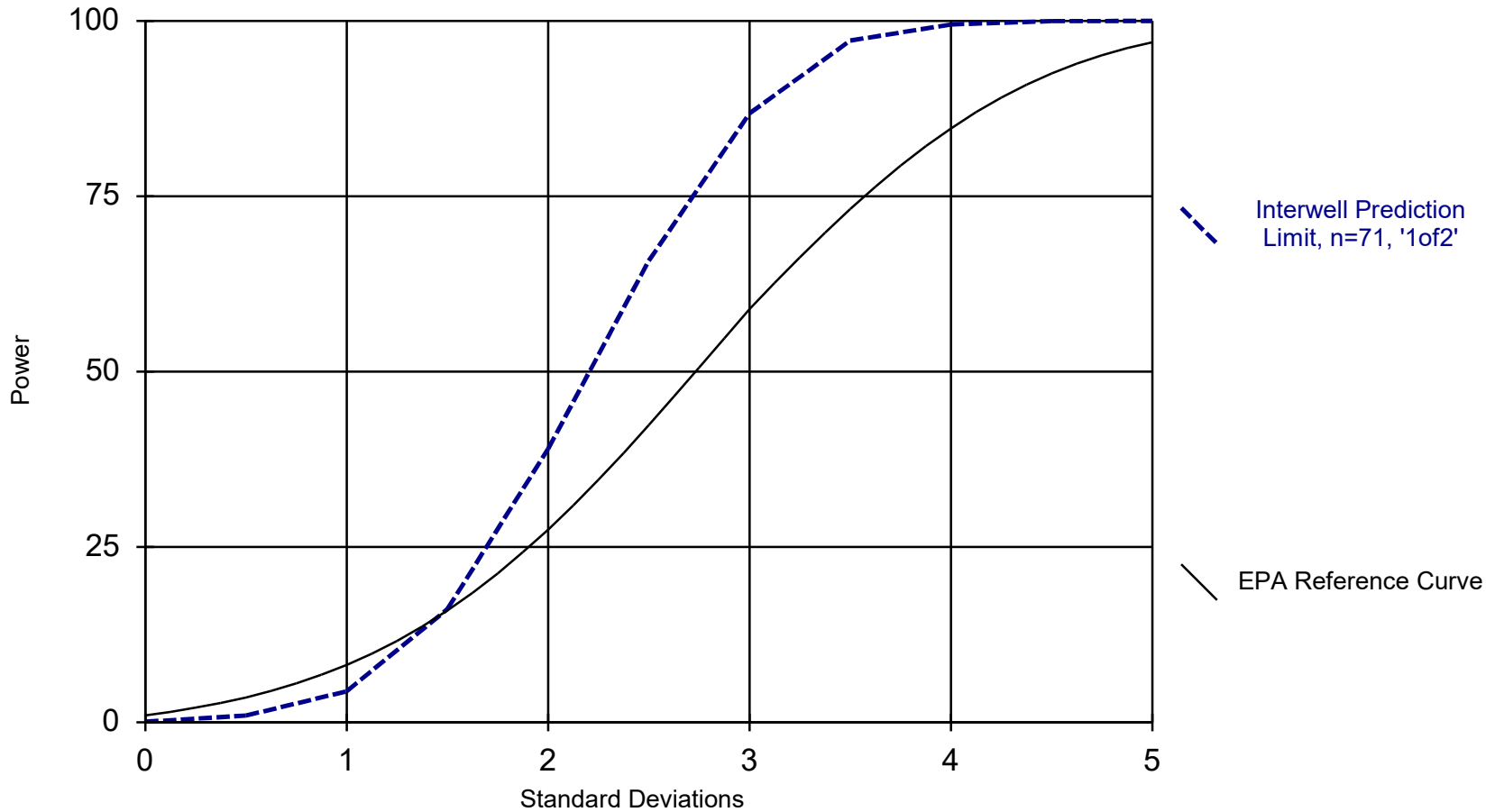


Kristina Rayner
Senior Statistician



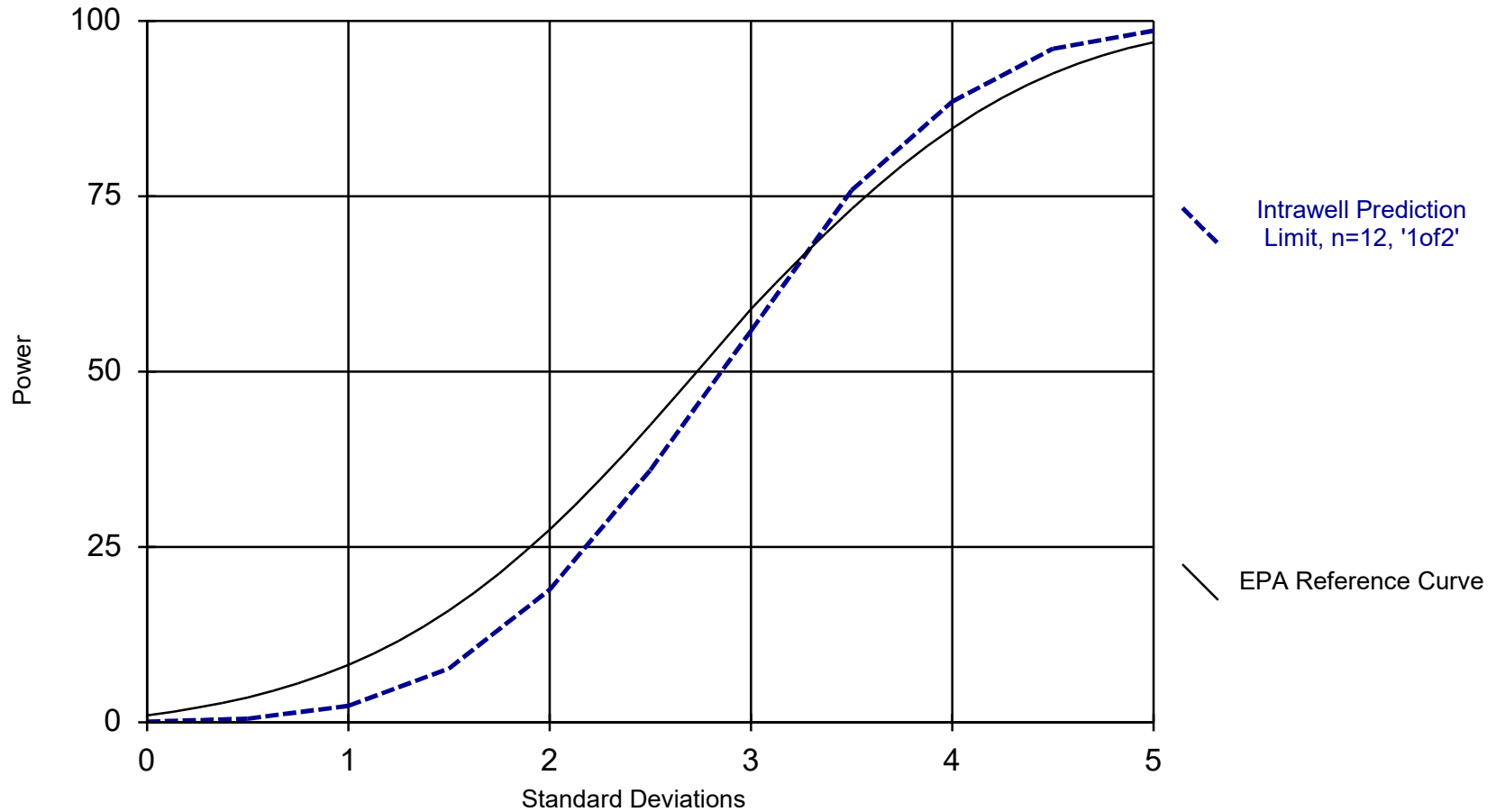
Andrew Collins
Project Manager

Power Curve



Kappa = 2.112, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Power Curve



Kappa = 2.8, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Date Ranges

Date: 7/12/2022 12:14 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

Sulfate as SO4 (mg/L)

- BY-AP-MW-1 background:3/2/2016-5/29/2019
- BY-AP-MW-10 background:3/1/2016-5/30/2019
- BY-AP-MW-11 background:3/1/2016-5/29/2019
- BY-AP-MW-12 background:3/2/2016-5/29/2019
- BY-AP-MW-13 background:3/2/2016-5/29/2019
- BY-AP-MW-13V background:3/2/2016-5/29/2019
- BY-AP-MW-8 background:3/1/2016-5/29/2019
- BY-AP-MW-9 background:3/1/2016-5/30/2019

100% Non-Detects

Analysis Run 7/20/2022 3:33 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Antimony (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Arsenic (mg/L)

BY-AP-MW-3

Beryllium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Cadmium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Fluoride, total (mg/L)

BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6

Lead (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-15, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8

Lithium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-8, BY-AP-MW-9

Mercury (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Molybdenum (mg/L)

BY-AP-MW-10, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4

Selenium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Thallium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-1	5.91	5.47	5/24/2022	5.44	Yes 19	n/a	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-10	6.463	6.143	5/24/2022	5.81	Yes 19	6.303	0.06515	0	None	No	0.0002351	Param Intra 1 of 2	
pH, field (SU)	BY-AP-MW-13	6.14	5.79	5/24/2022	5.5	Yes 19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2	
pH, field (SU)	BY-AP-MW-2	6.2	5.161	5/24/2022	4.78	Yes 19	1094	156.3	0	None	x^4	0.0002351	Param Intra 1 of 2	
pH, field (SU)	BY-AP-MW-6	5.694	4.846	5/25/2022	4.57	Yes 19	801.5	101.6	0	None	x^4	0.0002351	Param Intra 1 of 2	
pH, field (SU)	BY-AP-MW-8	6.26	5.89	5/24/2022	5.6	Yes 19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2	
pH, field (SU)	BY-UP-MW-1	4.882	4.49	5/31/2022	3.89	Yes 18	4.686	0.0786	0	None	No	0.0002351	Param Intra 1 of 2	
pH, field (SU)	BY-UP-MW-2	5.032	4.318	5/31/2022	3.31	Yes 18	4.675	0.1431	0	None	No	0.0002351	Param Intra 1 of 2	
pH, field (SU)	BY-UP-MW-3	4.98	4.4	5/31/2022	3.54	Yes 18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2	
pH, field (SU)	BY-UP-MW-4	5.082	4.517	5/31/2022	3.97	Yes 18	4.799	0.1134	0	None	No	0.0002351	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	BY-AP-MW-1	6.348	n/a	5/24/2022	21	Yes 13	52.17	74.33	46.15	Kaplan-Meier	*3	0.0004702	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	BY-AP-MW-10	5	n/a	5/24/2022	14.7	Yes 13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	BY-AP-MW-11	19.37	n/a	5/23/2022	29.3	Yes 13	1.308	0.5028	46.15	Kaplan-Meier	^(1/3)	0.0004702	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	BY-AP-MW-12	7.04	n/a	5/23/2022	13	Yes 12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	BY-AP-MW-13	9.841	n/a	5/24/2022	38.3	Yes 12	3.818	2.151	41.67	Kaplan-Meier	No	0.0004702	Param Intra 1 of 2	
Sulfate as SO4 (mg/L)	BY-AP-MW-14	61.6	n/a	5/25/2022	105	Yes 16	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2	
Sulfate as SO4 (mg/L)	BY-AP-MW-7	5	n/a	5/24/2022	7.14	Yes 16	n/a	n/a	37.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2	
Sulfate as SO4 (mg/L)	BY-AP-MW-8	6.01	n/a	5/24/2022	81.3	Yes 13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2	

Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-1	5.91	5.47	5/24/2022	5.44	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-10	6.463	6.143	5/24/2022	5.81	Yes	19	6.303	0.06515	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-11	6.34	5.85	5/23/2022	6.32	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-12	6.25	5.58	5/23/2022	6.12	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-13	6.14	5.79	5/24/2022	5.5	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-14	6.14	5.76	5/25/2022	6.14	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-15	6.76	6.2	5/25/2022	6.68	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-16	5.87	5.23	5/25/2022	5.74	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-2	6.2	5.161	5/24/2022	4.78	Yes	19	1094	156.3	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-3	5.22	4.24	5/25/2022	4.64	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-4	5.355	3.955	5/25/2022	4.6	No	19	4.655	0.2846	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-5	6.03	5.47	5/25/2022	5.99	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-6	5.694	4.846	5/25/2022	4.57	Yes	19	801.5	101.6	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-7	6.432	6.166	5/24/2022	6.32	No	18	6.299	0.05346	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.26	5.89	5/24/2022	5.6	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-9	6.32	5.97	5/24/2022	6.03	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-1	4.882	4.49	5/31/2022	3.89	Yes	18	4.686	0.0786	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-2	5.032	4.318	5/31/2022	3.31	Yes	18	4.675	0.1431	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-3	4.98	4.4	5/31/2022	3.54	Yes	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-4	5.082	4.517	5/31/2022	3.97	Yes	18	4.799	0.1134	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-1	6.348	n/a	5/24/2022	21	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-10	5	n/a	5/24/2022	14.7	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-11	19.37	n/a	5/23/2022	29.3	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-12	7.04	n/a	5/23/2022	13	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-13	9.841	n/a	5/24/2022	38.3	Yes	12	3.818	2.151	41.67	Kaplan-Meier	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-14	61.6	n/a	5/25/2022	105	Yes	16	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-15	7.61	n/a	5/25/2022	1.8J	No	17	n/a	n/a	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-16	6.72	n/a	5/25/2022	6.29	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-2	3.3	n/a	5/24/2022	0.615J	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-3	5	n/a	5/25/2022	1.41J	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-4	5.778	n/a	5/25/2022	1.97J	No	17	2.878	1.149	5.882	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-5	11	n/a	5/25/2022	5.53	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-6	3.037	n/a	5/25/2022	1.27J	No	17	0.01145	0.4356	23.53	Kaplan-Meier	ln(x)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-7	5	n/a	5/24/2022	7.14	Yes	16	n/a	n/a	37.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-8	6.01	n/a	5/24/2022	81.3	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-9	5.91	n/a	5/24/2022	5.76	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-1	31.7	n/a	5/31/2022	12.8	No	16	3.458	0.85	0	None	sqrt(x)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-2	9.774	n/a	5/31/2022	8.09	No	15	6.454	1.269	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-3	9.087	n/a	5/31/2022	7.02	No	16	7.496	0.6224	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-4	10.8	n/a	5/31/2022	7.94	No	16	n/a	n/a	0	n/a	n/a	0.006456	NP Intra (normality) 1 of 2

Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:14 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.188	5/24/2022	2.08	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-10	0.188	5/24/2022	2.34	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-16	0.188	5/25/2022	1.98	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-8	0.188	5/24/2022	1.12	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-9	0.188	5/24/2022	2.01	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	BY-AP-MW-1	2.141	5/24/2022	43.9	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-10	2.141	5/24/2022	63.9	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-11	2.141	5/23/2022	26	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-12	2.141	5/23/2022	20.6	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-13	2.141	5/24/2022	19.2	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-14	2.141	5/25/2022	11.4	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-15	2.141	5/25/2022	6.41	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-16	2.141	5/25/2022	13.9	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-2	2.141	5/24/2022	2.45	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-5	2.141	5/25/2022	14.6	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-7	2.141	5/24/2022	10.5	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-8	2.141	5/24/2022	31.5	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-9	2.141	5/24/2022	38.3	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-1	9.9	5/24/2022	28.7	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-10	9.9	5/24/2022	27.7	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-11	9.9	5/23/2022	25.1	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-12	9.9	5/23/2022	26.2	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-13	9.9	5/24/2022	43.5	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-14	9.9	5/25/2022	45.3	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-15	9.9	5/25/2022	80.7	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-16	9.9	5/25/2022	20	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-3	9.9	5/25/2022	15.2	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-4	9.9	5/25/2022	16.1	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-5	9.9	5/25/2022	20	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-7	9.9	5/24/2022	13.2	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-8	9.9	5/24/2022	25	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-9	9.9	5/24/2022	17.3	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-15	0.125	5/25/2022	0.214	Yes	76	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	5/24/2022	464	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	5/24/2022	398	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	5/23/2022	404	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	5/23/2022	345	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	5/24/2022	257	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	5/25/2022	328	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	5/25/2022	255	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	5/25/2022	299	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	5/25/2022	252	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	5/24/2022	148	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	5/24/2022	303	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	5/24/2022	268	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:14 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	BY-AP-MW-13	58	5/24/2022	257	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	5/25/2022	328	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	5/25/2022	255	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	5/25/2022	299	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-2	58	5/24/2022	40.7	No	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-3	58	5/25/2022	50.7	No	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	5/25/2022	48.7	No	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	5/25/2022	252	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-6	58	5/25/2022	40.7	No	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	5/24/2022	148	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	5/24/2022	303	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	5/24/2022	268	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2

Trend Test - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-10	0.1311	110	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-16	0.0646	84	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-8	-0.1071	-112	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-10	2.463	117	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-12	0.4261	87	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-7	0.4635	133	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-8	-0.4562	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-3 (bg)	0.07505	86	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-4 (bg)	0.1262	111	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-1	0.8122	65	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-10	1.596	139	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-12	0.6575	105	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-14	1.34	83	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-15	9.506	151	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-16	0.8393	115	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-3	0.359	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-7	0.4288	75	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-2 (bg)	-0.3942	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-3 (bg)	-0.04984	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-4 (bg)	-0.05925	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-1 (bg)	0.01277	80	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-2 (bg)	0.01673	85	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-3 (bg)	0.01205	92	74	Yes	19	63.16	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-4 (bg)	0.01076	92	74	Yes	19	63.16	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-13	-0.0481	-128	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-2	-0.09486	-137	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-2 (bg)	-0.07015	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-3 (bg)	-0.07433	-113	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-4 (bg)	-0.05992	-98	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-1	2.168	106	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-11	5.258	114	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-12	2.096	77	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-14	7.276	79	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-8	2.306	104	74	Yes	19	52.63	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	6.544	88	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	15.07	125	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-1 (bg)	3.147	72	68	Yes	18	5.556	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-4 (bg)	3.695	95	68	Yes	18	22.22	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:26 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron, total (mg/L)	BY-AP-MW-1	0.05988	45	68	No	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-10	0.1311	110	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-16	0.0646	84	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-8	-0.1071	-112	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-9	0.01049	10	68	No	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-1 (bg)	0	-19	-68	No	18	44.44	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-2 (bg)	0	27	63	No	17	88.24	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-3 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-4 (bg)	0	25	68	No	18	88.89	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-1	0.3773	13	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-10	2.463	117	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-11	-0.333	-43	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-12	0.4261	87	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-13	0.1429	36	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-14	0	-7	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-15	0.1185	41	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-16	0.06036	18	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-2	-0.05034	-36	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-5	0	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-7	0.4635	133	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-8	-0.4562	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-9	0.09472	21	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-1 (bg)	0.02597	19	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-2 (bg)	0.06598	57	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-3 (bg)	0.07505	86	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-4 (bg)	0.1262	111	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-1	0.8122	65	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-10	1.596	139	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-11	0.5172	43	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-12	0.6575	105	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-13	-0.07749	-5	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-14	1.34	83	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-15	9.506	151	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-16	0.8393	115	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-3	0.359	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-4	-0.3427	-26	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-5	0.02448	15	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-7	0.4288	75	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-8	0.08022	18	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-9	-1.025	-69	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-1 (bg)	-0.1668	-34	-68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-2 (bg)	-0.3942	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-3 (bg)	-0.04984	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-4 (bg)	-0.05925	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-AP-MW-15	0	0	74	No	19	5.263	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-1 (bg)	0.01277	80	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-2 (bg)	0.01673	85	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-3 (bg)	0.01205	92	74	Yes	19	63.16	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-4 (bg)	0.01076	92	74	Yes	19	63.16	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-1	0	0	87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-10	-0.01552	-32	-87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-13	-0.0481	-128	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-2	-0.09486	-137	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-6	-0.04963	-83	-87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-8	-0.01141	-56	-87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-1 (bg)	-0.004287	-14	-81	No	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-2 (bg)	-0.07015	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-3 (bg)	-0.07433	-113	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-4 (bg)	-0.05992	-98	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-1	2.168	106	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-10	0.812	67	74	No	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-11	5.258	114	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-12	2.096	77	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-13	3.002	67	68	No	18	27.78	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-14	7.276	79	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-7	0.7261	62	68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-8	2.306	104	74	Yes	19	52.63	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-1 (bg)	1.548	45	68	No	18	0	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:26 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate as SO4 (mg/L)	BY-UP-MW-2 (bg)	0.0231	3	63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-3 (bg)	-0.07308	-27	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-4 (bg)	-0.02454	-6	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-1	0	1	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	6.544	88	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-11	5.887	54	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-12	-1.313	-20	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-13	-5.166	-64	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-14	2.028	33	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	15.07	125	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-16	3.704	49	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-5	-2.941	-31	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-7	1.47	31	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-8	-0.7384	-8	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-9	-5.014	-59	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-1 (bg)	3.147	72	68	Yes	18	5.556	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-2 (bg)	1.703	57	68	No	18	11.11	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-3 (bg)	1.36	45	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-4 (bg)	3.695	95	68	Yes	18	22.22	n/a	n/a	0.01	NP

Upper Tolerance Limits - Summary Table

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 1/19/2022, 3:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	92.65	n/a	n/a	0.03056	NP Inter
Arsenic (mg/L)	n/a	0.0017	n/a	n/a	n/a	68	n/a	n/a	88.24	n/a	n/a	0.03056	NP Inter
Barium (mg/L)	n/a	0.183	n/a	n/a	n/a	68	n/a	n/a	0	n/a	n/a	0.03056	NP Inter
Beryllium (mg/L)	n/a	0.00102	n/a	n/a	n/a	66	n/a	n/a	93.94	n/a	n/a	0.03387	NP Inter
Cadmium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	68	n/a	n/a	83.82	n/a	n/a	0.03056	NP Inter
Cobalt (mg/L)	n/a	0.0157	n/a	n/a	n/a	67	n/a	n/a	58.21	n/a	n/a	0.03217	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	3	n/a	n/a	n/a	60	n/a	n/a	0	n/a	n/a	0.04607	NP Inter
Fluoride, total (mg/L)	n/a	0.1	n/a	n/a	n/a	72	n/a	n/a	52.78	n/a	n/a	0.02489	NP Inter
Lead (mg/L)	n/a	0.00126	n/a	n/a	n/a	68	n/a	n/a	89.71	n/a	n/a	0.03056	NP Inter
Lithium (mg/L)	n/a	0.02	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Molybdenum (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Selenium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Thallium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter

BARRY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.0017	0.01
Barium	mg/L	0.183	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0157	0.0157
Combined Radium-226/228	pCi/L	3	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.00126	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0002	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.0002	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

Confidence Interval Summary Table - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07688	0.05769	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07651	0.06677	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01648	0.01374	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.0246	0.0215	0.01	Yes	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-13	0.01495	0.01312	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-14	0.0182	0.01473	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01954	0.01573	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01434	0.01096	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-5	0.03536	0.02914	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-7	0.02326	0.01926	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06545	0.05105	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04498	0.03737	0.01	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-15	0.037	0.03248	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-7	0.02135	0.01752	0.0157	Yes	8	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07688	0.05769	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07651	0.06677	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01648	0.01374	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.0246	0.0215	0.01	Yes	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-13	0.01495	0.01312	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-14	0.0182	0.01473	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01954	0.01573	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01434	0.01096	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-2	0.001765	0.00125	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-4	0.0002	0.0001	0.01	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-5	0.03536	0.02914	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-6	0.000103	0.0001	0.01	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-7	0.02326	0.01926	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06545	0.05105	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04498	0.03737	0.01	Yes	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-1	0.3384	0.2783	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-10	0.07502	0.06196	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-11	0.09918	0.06777	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-12	0.08641	0.07752	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-13	0.07647	0.06744	2	No	8	0	ln(x)	0.01	Param.
Barium (mg/L)	BY-AP-MW-14	0.07075	0.0594	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-15	0.08085	0.05845	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-16	0.1005	0.08087	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-2	0.02663	0.02375	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-3	0.04373	0.03406	2	No	8	0	sqrt(x)	0.01	Param.
Barium (mg/L)	BY-AP-MW-4	0.03257	0.01483	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-5	0.1575	0.1412	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-6	0.02913	0.02379	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-7	0.07229	0.06041	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-8	0.1473	0.1367	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-9	0.1232	0.1143	2	No	8	0	No	0.01	Param.
Beryllium (mg/L)	BY-AP-MW-4	0.00102	0.00065	0.004	No	8	75	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-6	0.00031	0.00007	0.005	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-1	0.00415	0.00223	0.1	No	8	0	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-10	0.00102	0.00052	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-11	0.003956	0.002066	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-12	0.0056	0.00325	0.1	No	8	0	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-13	0.008713	0.006678	0.1	No	8	0	ln(x)	0.01	Param.
Chromium (mg/L)	BY-AP-MW-14	0.005123	0.003732	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-15	0.00102	0.00049	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-16	0.0018	0.00102	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-2	0.00102	0.00029	0.1	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-3	0.00104	0.000919	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-4	0.00102	0.00026	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-5	0.00103	0.00101	0.1	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-6	0.00102	0.00023	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-7	0.00709	0.00058	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-8	0.00165	0.00102	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-9	0.00102	0.0007	0.1	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-1	0.005	0.00091	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-10	0.005	0.00054	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-11	0.005	0.00118	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-12	0.003937	0.00292	0.0157	No	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-13	0.005	0.00113	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-14	0.005	0.00124	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-15	0.037	0.03248	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-16	0.02062	0.01343	0.0157	No	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-2	0.007575	0.006423	0.0157	No	8	0	x^2	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-3	0.005	0.00016	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-4	0.0205	0.00363	0.0157	No	8	12.5	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-5	0.005	0.00184	0.0157	No	8	75	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-6	0.005	0.0006	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-7	0.02135	0.01752	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-8	0.005	0.00067	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-9	0.005	0.00069	0.0157	No	8	62.5	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-1	2.783	1.67	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-10	1.332	0.3915	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-11	0.8362	0.3081	5	No	8	0	sqrt(x)	0.01	Param.

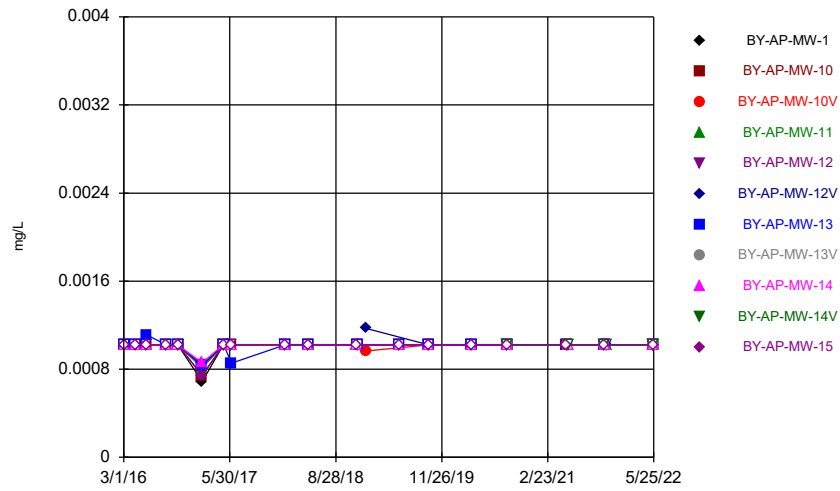
Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-12	1.76	0.8804	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-13	1.375	0.5961	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-14	1.124	0.476	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-15	1.443	0.3816	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-16	1.569	0.285	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-2	0.9189	0.3196	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-3	1.8	0.3065	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-4	0.9614	0.3385	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-5	2.221	0.9224	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-6	1.312	-0.03787	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-7	1.116	0.294	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-8	1.054	0.4141	5	No	8	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-9	1.478	0.636	5	No	8	0	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-1	0.194	0.0625	4	No	8	12.5	No	0.004	NP (normality)
Fluoride, total (mg/L)	BY-AP-MW-10	0.105	0.0573	4	No	8	62.5	No	0.004	NP (NDs)
Fluoride, total (mg/L)	BY-AP-MW-11	0.09643	0.06172	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-12	0.09011	0.05424	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-13	0.07751	0.05904	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-14	0.09472	0.06606	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-15	0.2059	0.1691	4	No	8	0	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-16	0.08512	0.06444	4	No	8	37.5	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-5	0.09618	0.05716	4	No	8	25	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-7	0.1062	0.07458	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-8	0.09399	0.06127	4	No	8	37.5	ln(x)	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-9	0.08187	0.05408	4	No	8	12.5	No	0.01	Param.
Lead (mg/L)	BY-AP-MW-11	0.0002	0.00009	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-12	0.000326	0.00018	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-13	0.0002	0.00015	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-14	0.0002	0.0000764	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-16	0.0002	0.000191	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-4	0.0002	0.00007	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-6	0.006786	0.0006176	0.015	No	8	12.5	sqrt(x)	0.01	Param.
Lead (mg/L)	BY-AP-MW-9	0.00108	0.0002	0.015	No	8	87.5	No	0.004	NP (NDs)
Lithium (mg/L)	BY-AP-MW-11	0.02902	0.00914	0.04	No	8	25	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-15	0.02368	0.01029	0.04	No	8	12.5	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-7	0.0882	0.0102	0.04	No	8	75	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-1	0.0002	0.00008	0.1	No	8	75	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-11	0.00652	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-12	0.00109	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-13	0.00356	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-14	0.000701	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-15	0.00209	0.0002	0.1	No	8	50	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-16	0.0002	0.000136	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-5	0.0002	0.00011	0.1	No	8	75	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-6	0.00033	0.00011	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-7	0.000214	0.00018	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-8	0.000321	0.00019	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-9	0.00024	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Selenium (mg/L)	BY-AP-MW-13	0.00102	0.00056	0.05	No	8	87.5	No	0.004	NP (NDs)

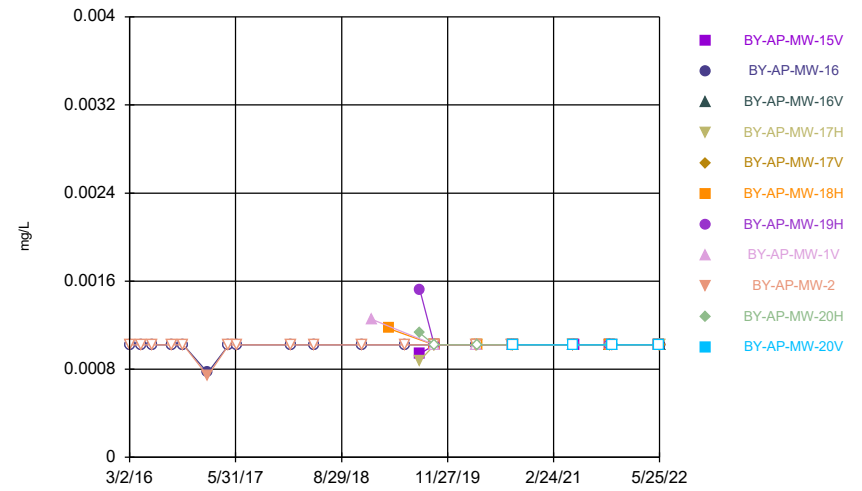
FIGURE A.

Time Series



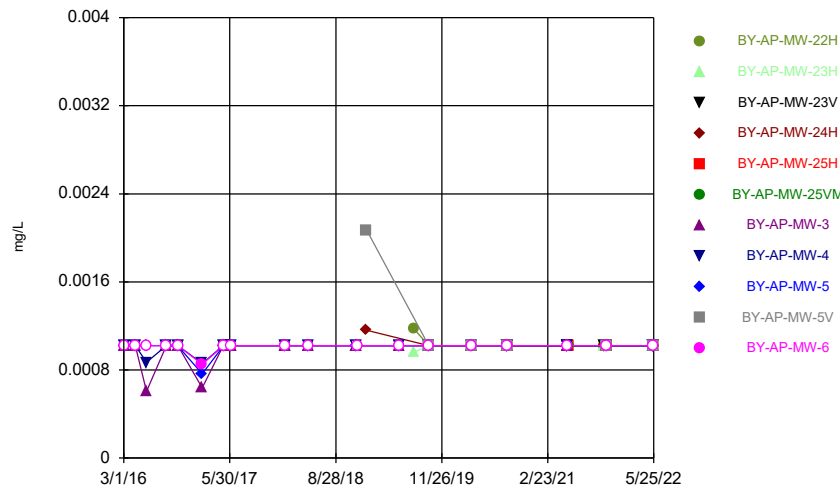
Constituent: Antimony Analysis Run 7/21/2022 3:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



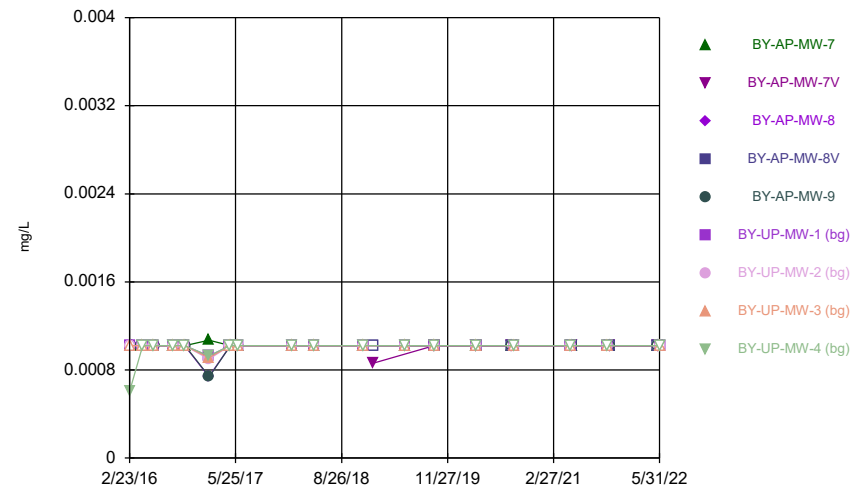
Constituent: Antimony Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



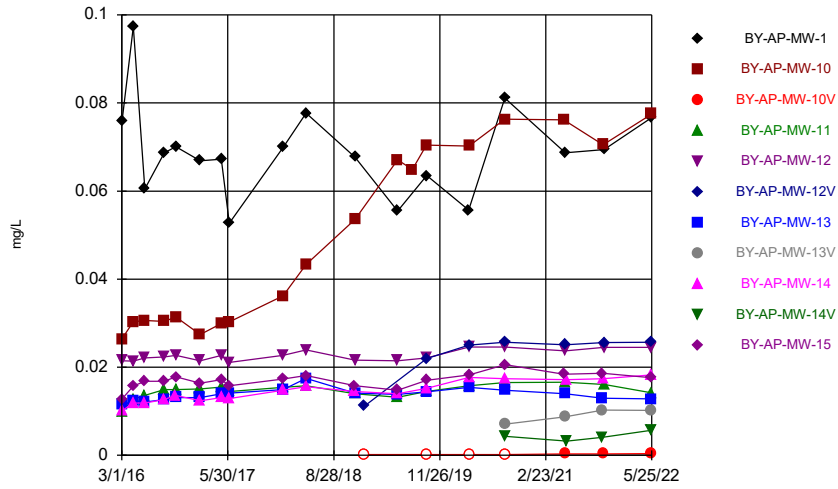
Constituent: Antimony Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



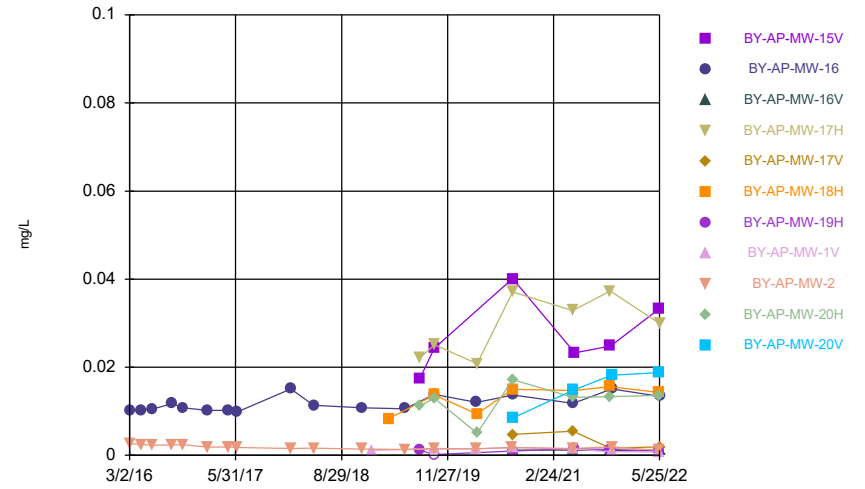
Constituent: Antimony Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



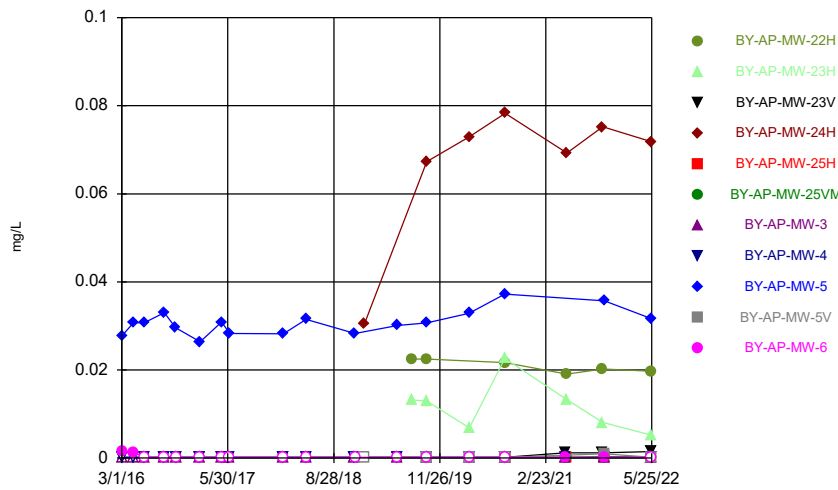
Constituent: Arsenic Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



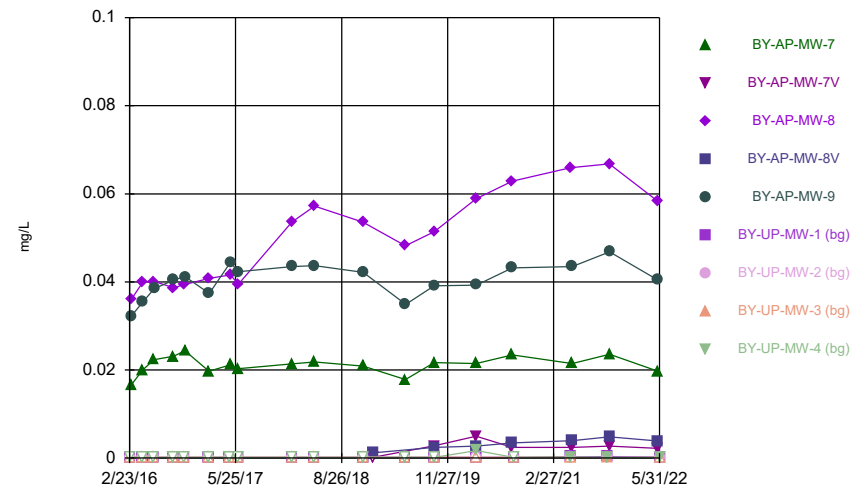
Constituent: Arsenic Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



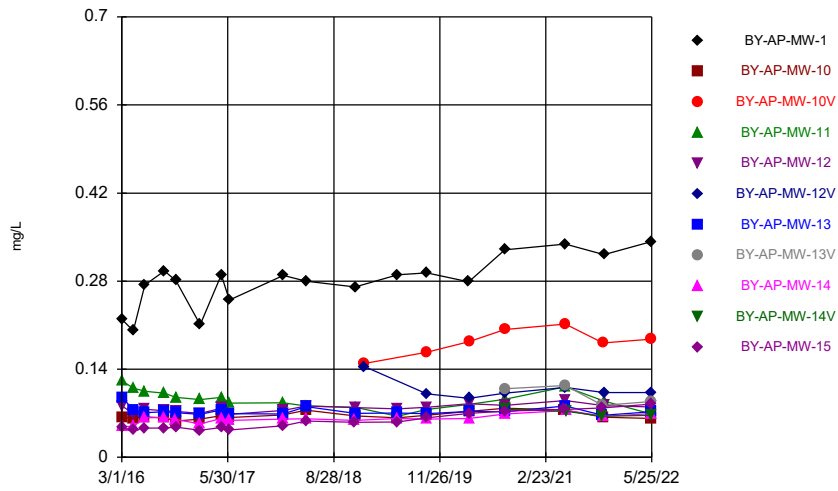
Constituent: Arsenic Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



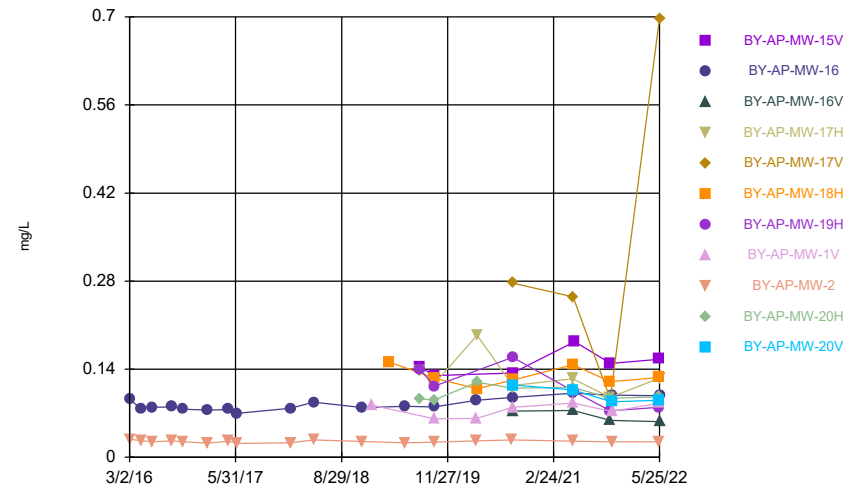
Constituent: Arsenic Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



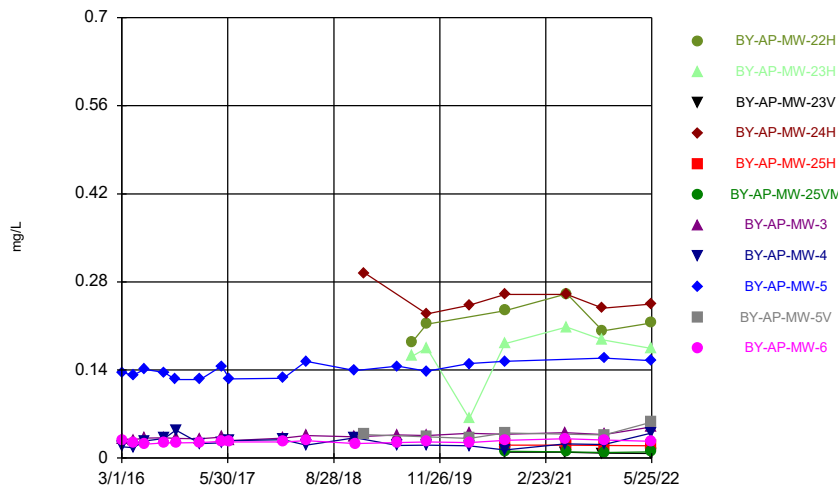
Constituent: Barium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



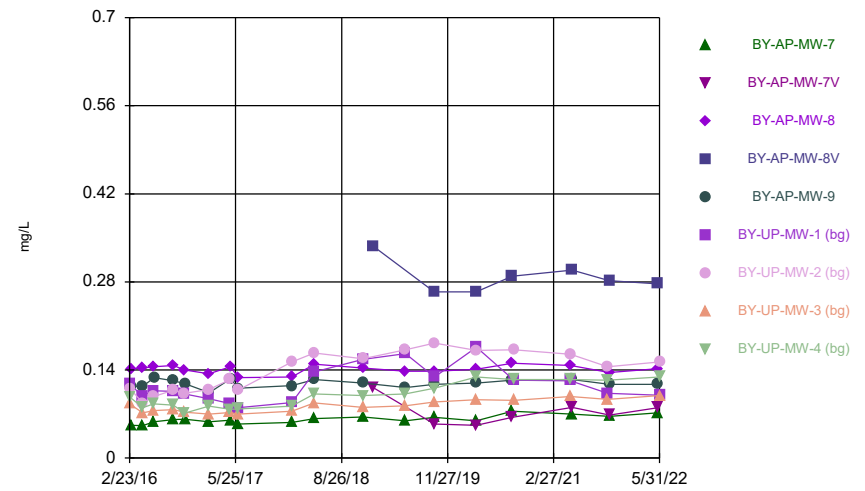
Constituent: Barium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



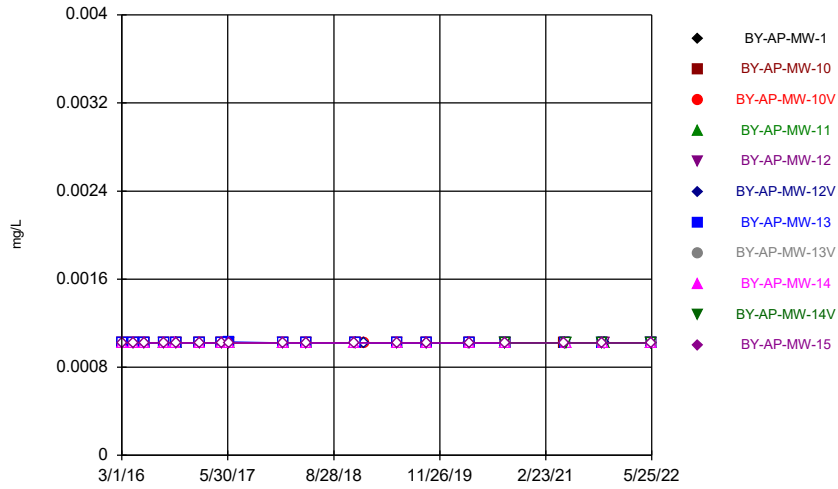
Constituent: Barium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



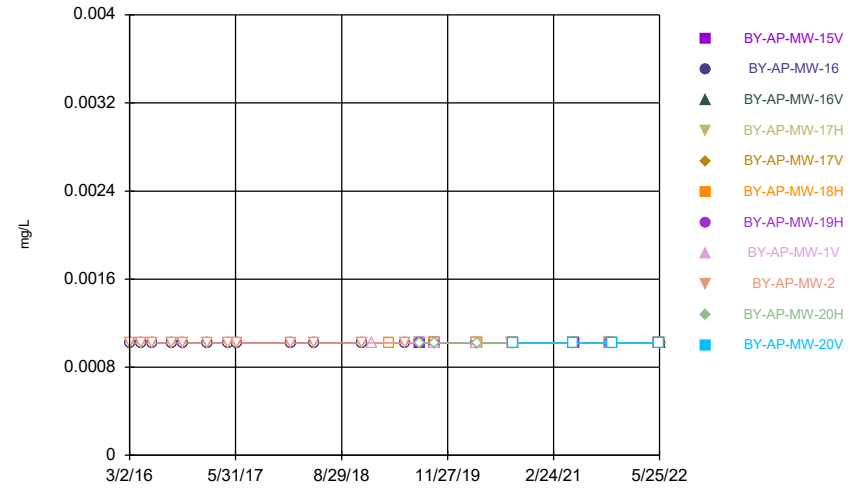
Constituent: Barium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



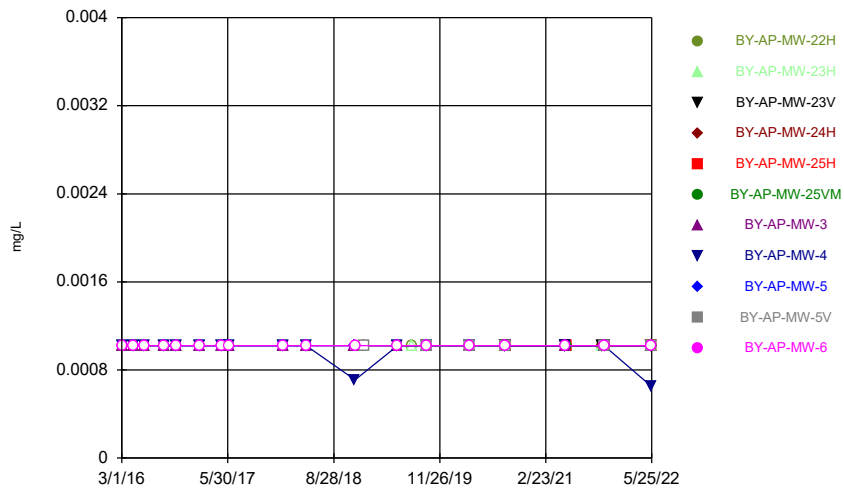
Constituent: Beryllium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



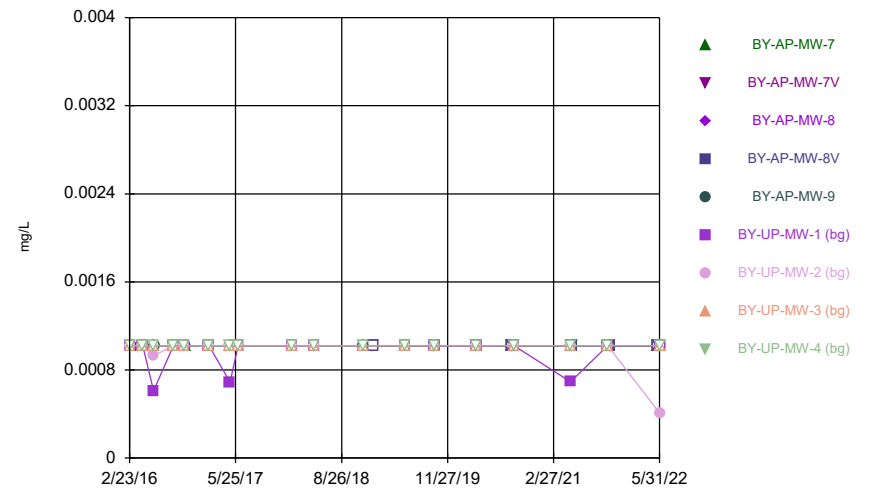
Constituent: Beryllium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



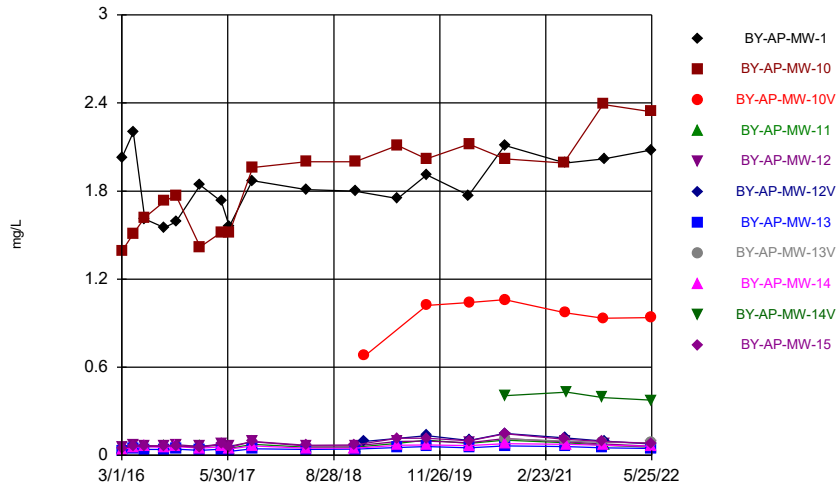
Constituent: Beryllium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Beryllium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

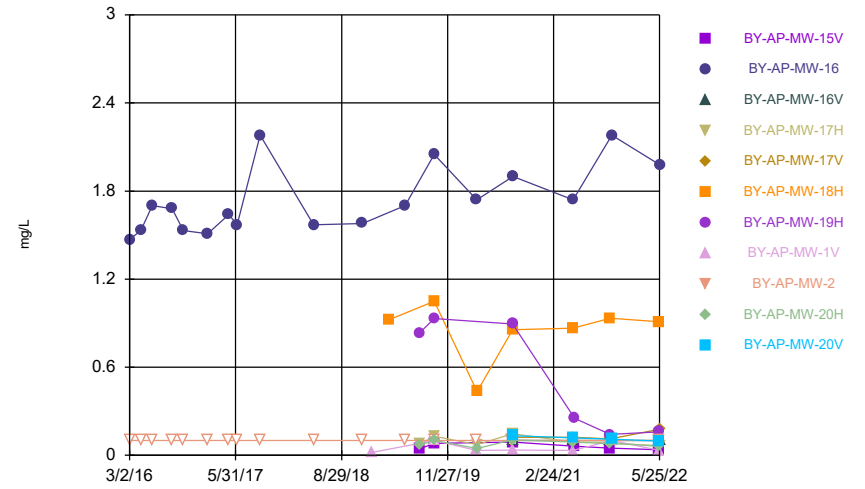
Time Series



Constituent: Boron, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

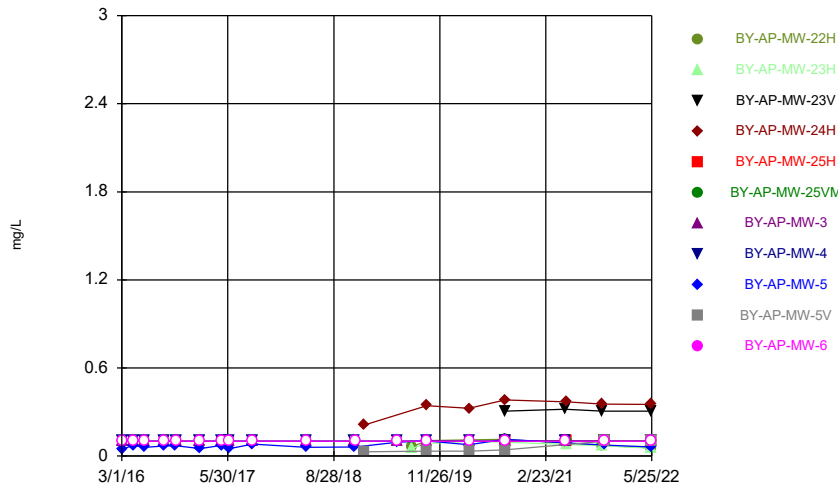
Time Series



Constituent: Boron, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

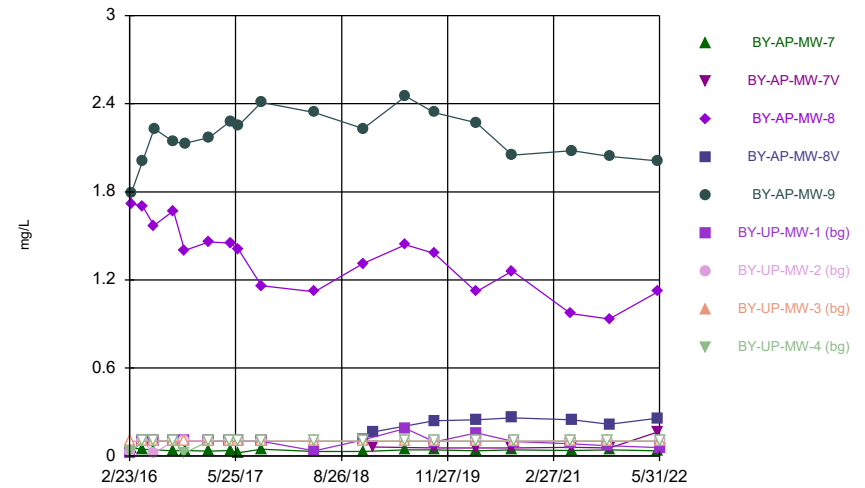
Time Series



Constituent: Boron, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

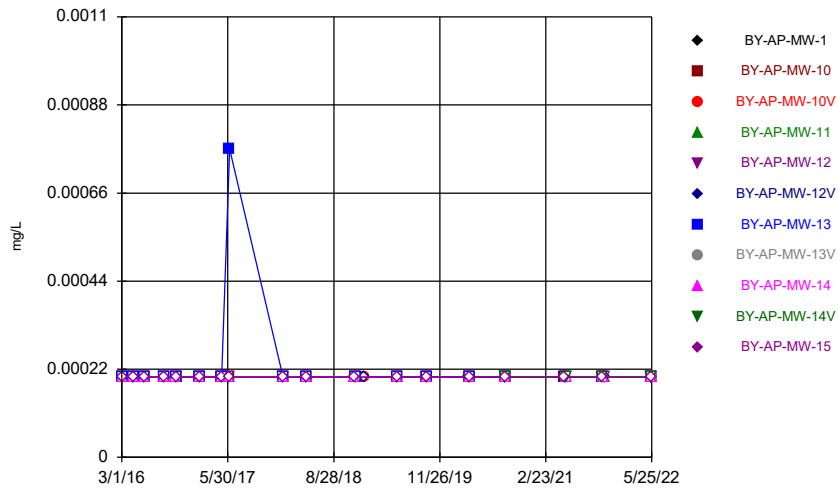
Hollow symbols indicate censored values.

Time Series



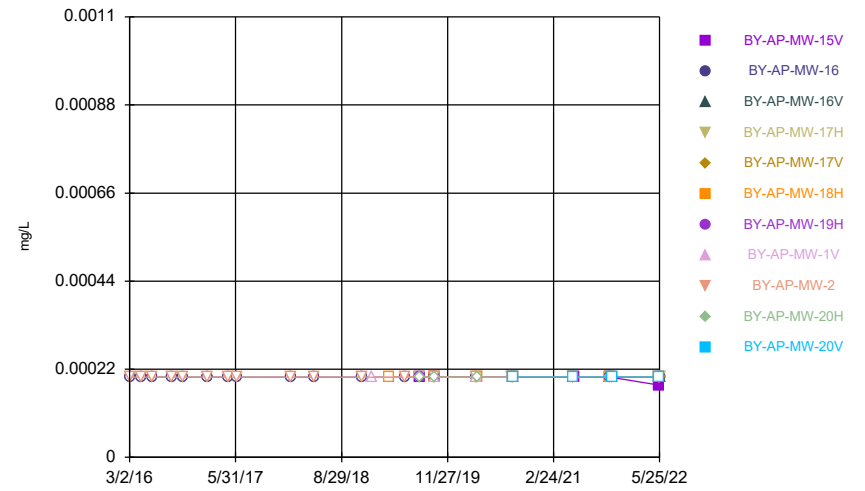
Constituent: Boron, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



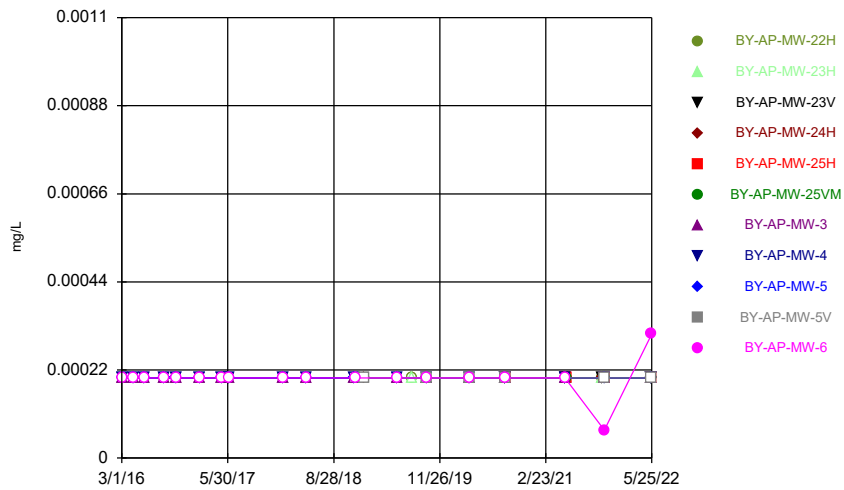
Constituent: Cadmium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



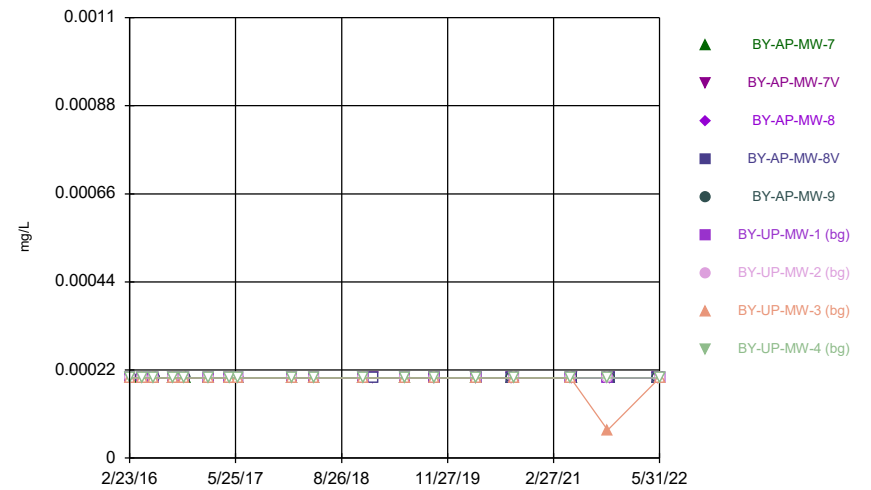
Constituent: Cadmium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



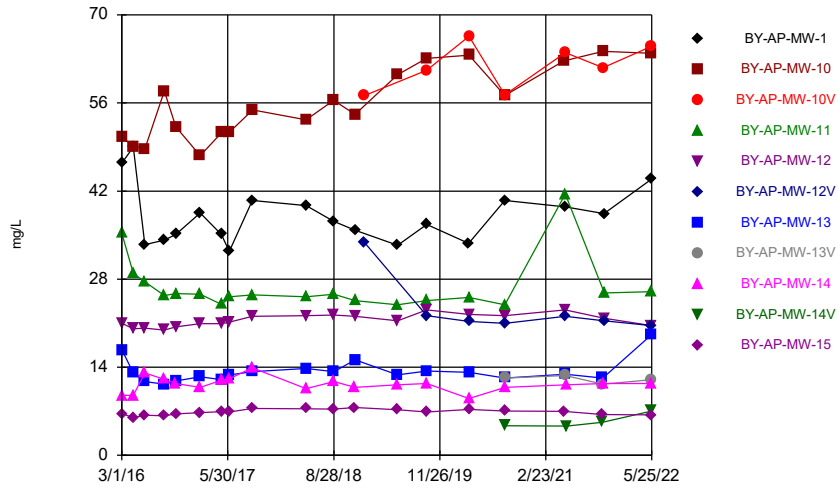
Constituent: Cadmium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



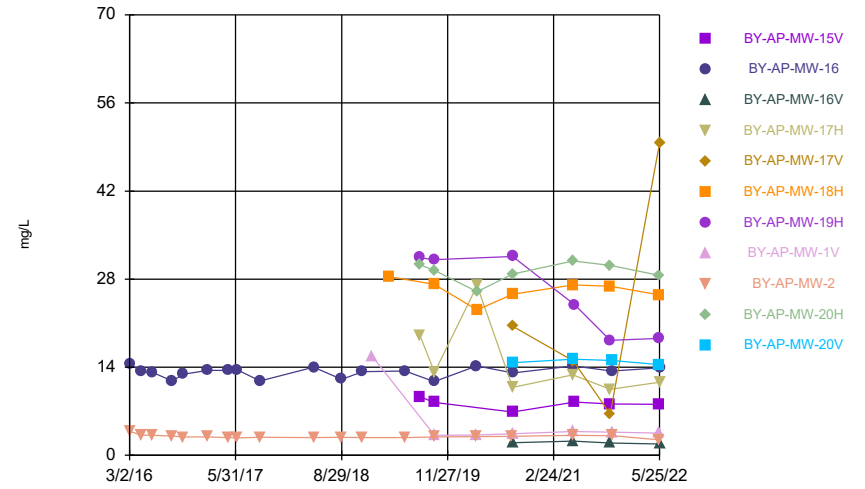
Constituent: Cadmium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



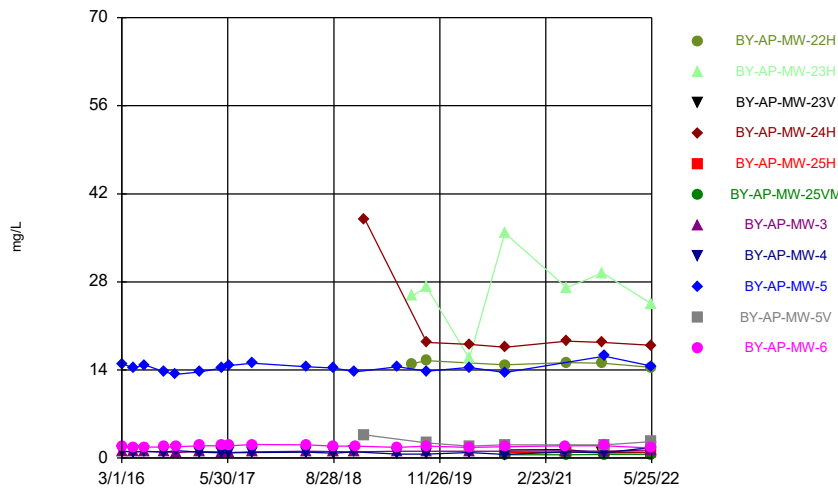
Constituent: Calcium, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



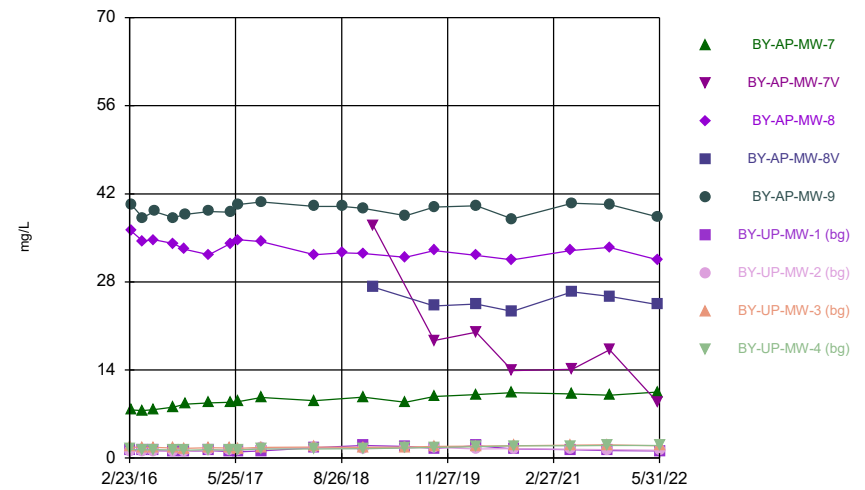
Constituent: Calcium, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



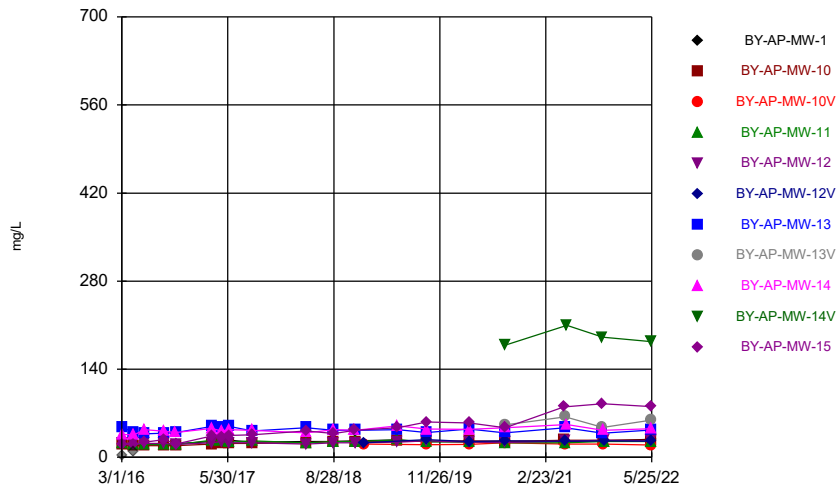
Constituent: Calcium, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



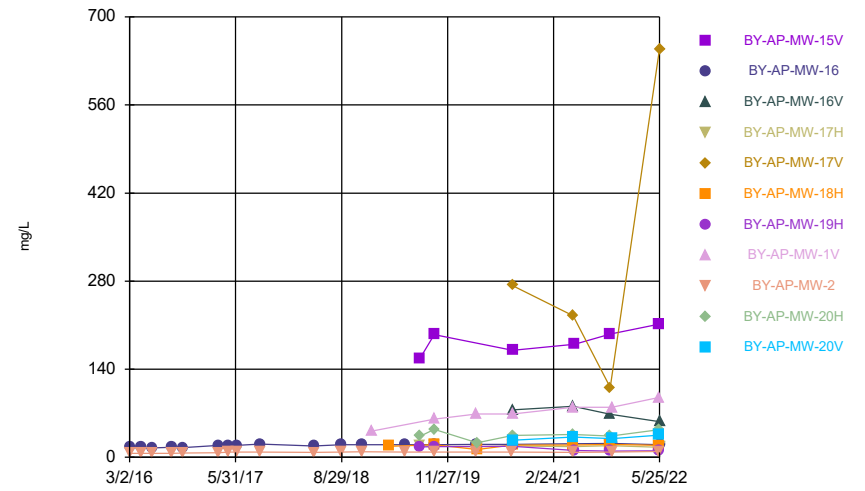
Constituent: Calcium, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



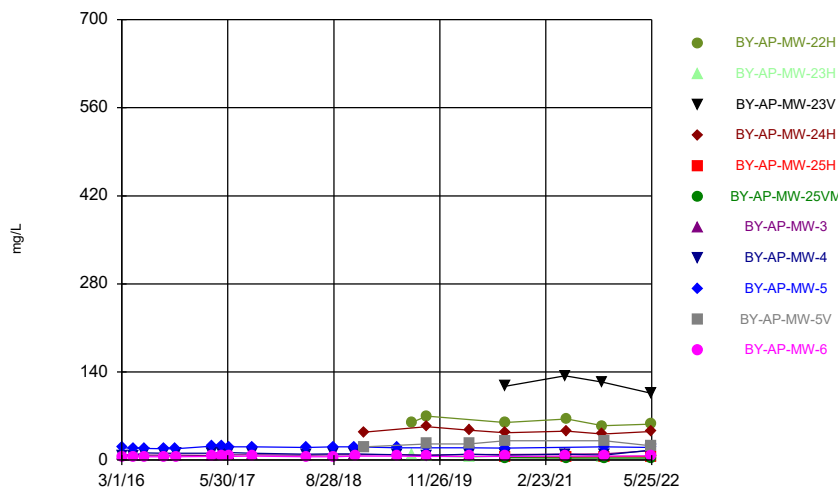
Constituent: Chloride, Total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



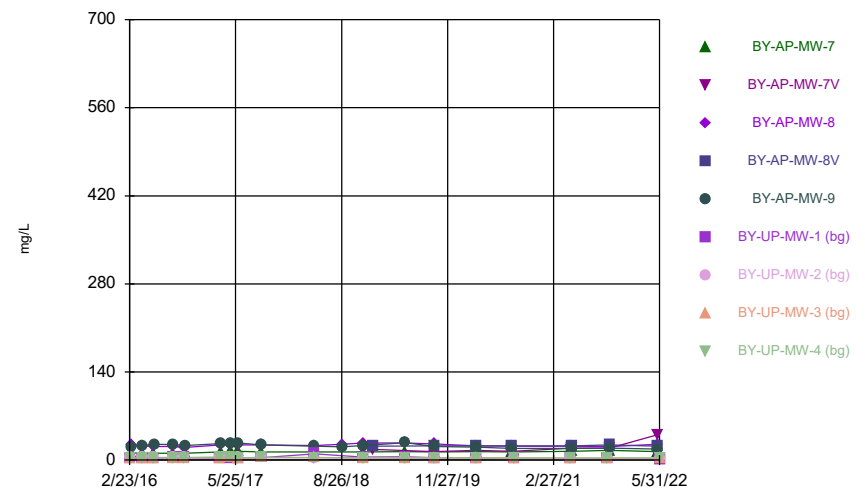
Constituent: Chloride, Total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



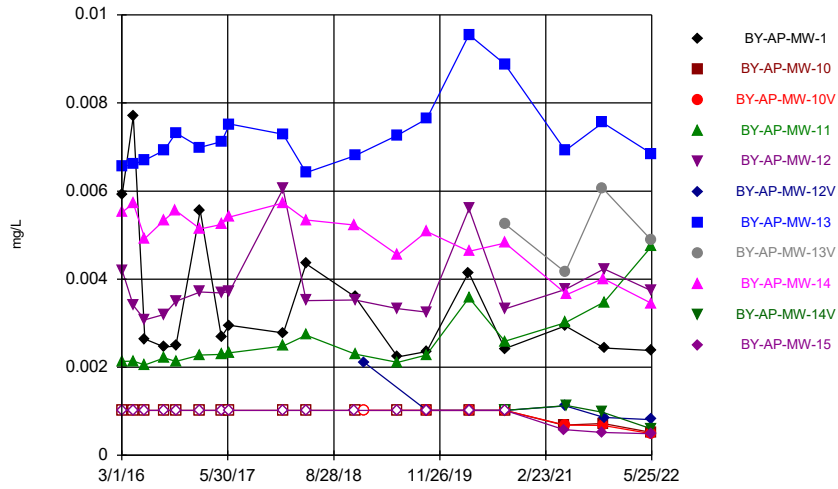
Constituent: Chloride, Total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



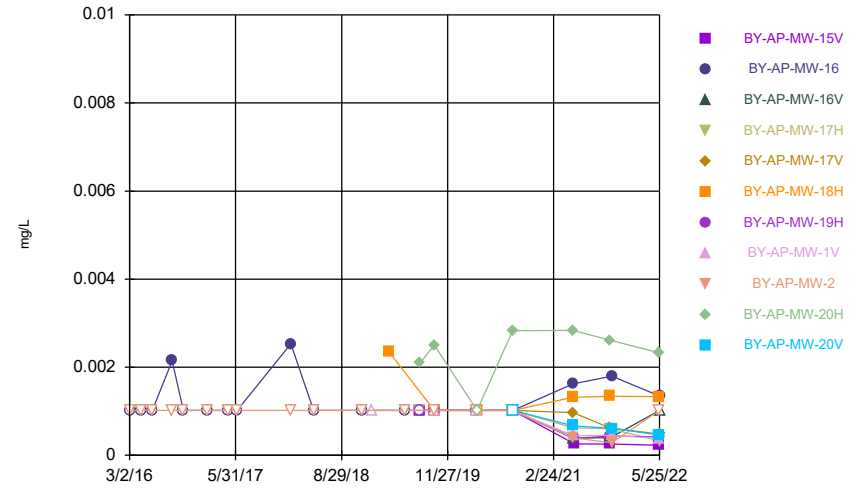
Constituent: Chloride, Total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



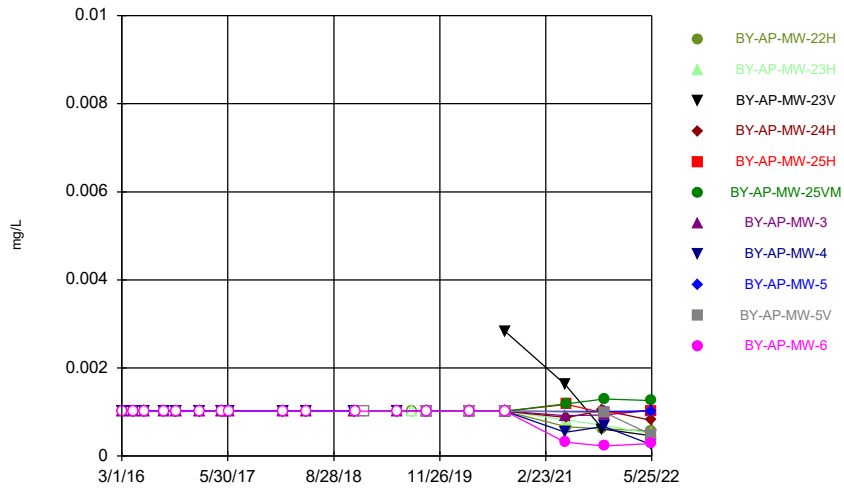
Constituent: Chromium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



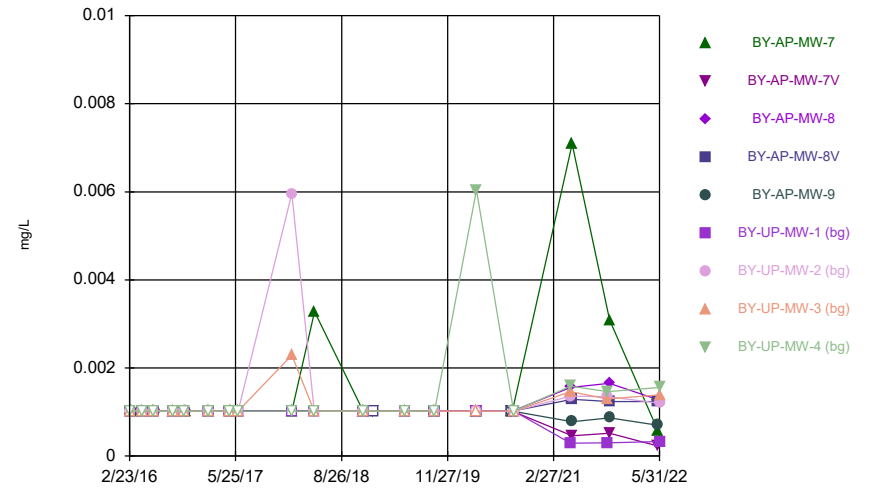
Constituent: Chromium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



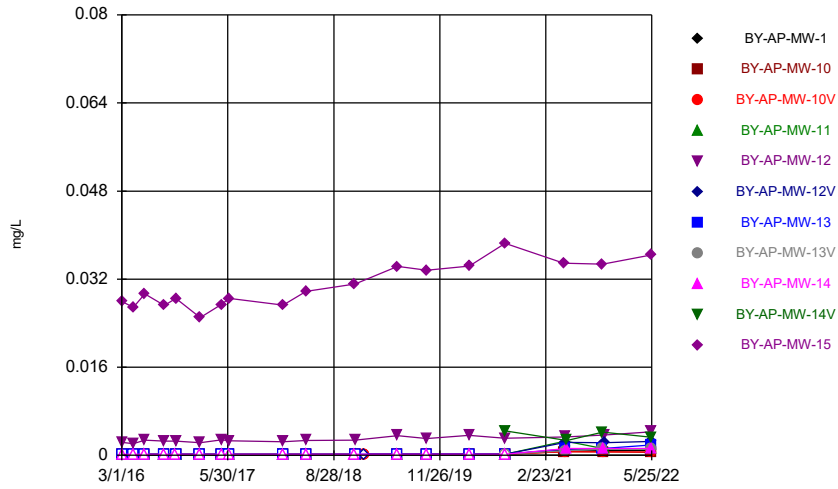
Constituent: Chromium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



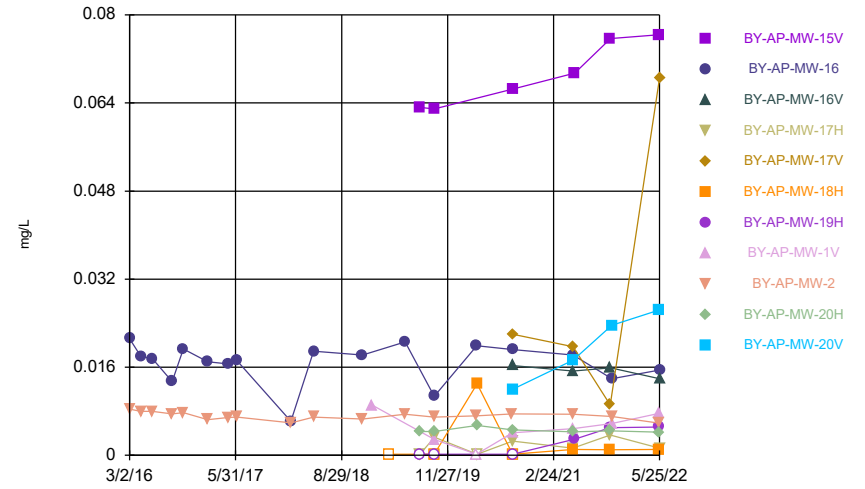
Constituent: Chromium Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



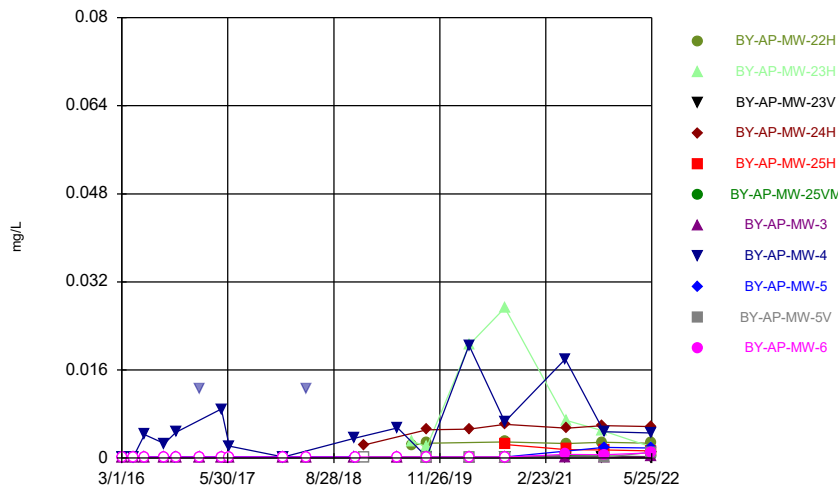
Constituent: Cobalt Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



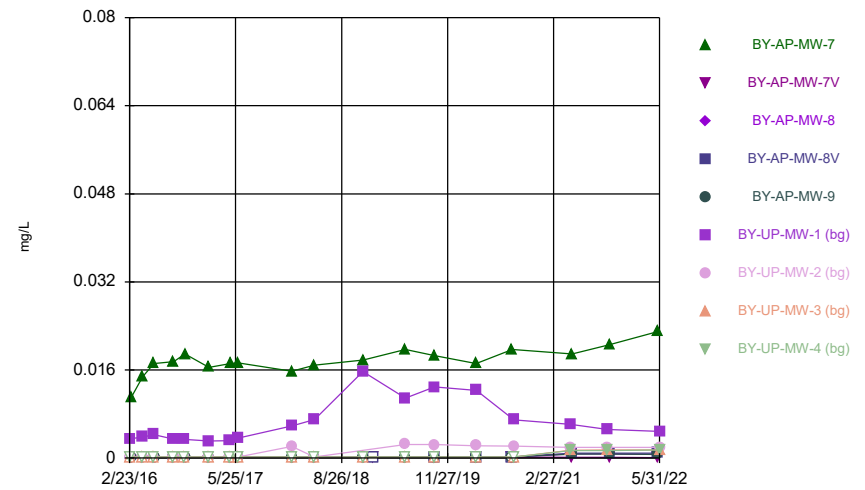
Constituent: Cobalt Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



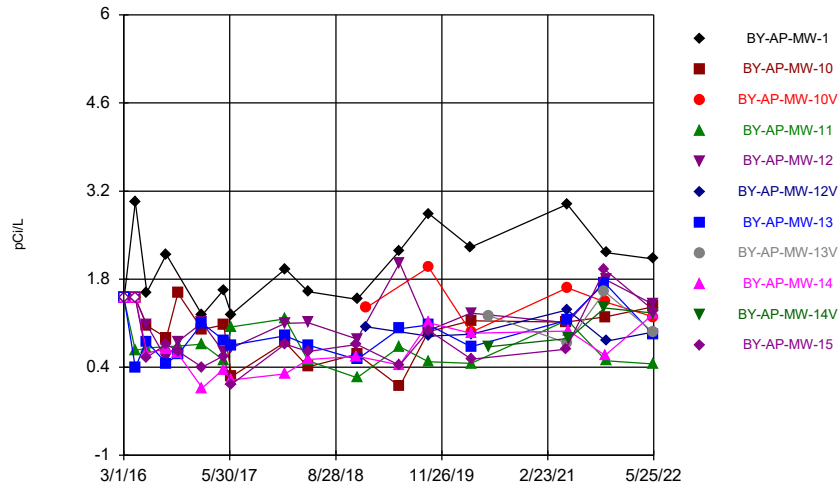
Constituent: Cobalt Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



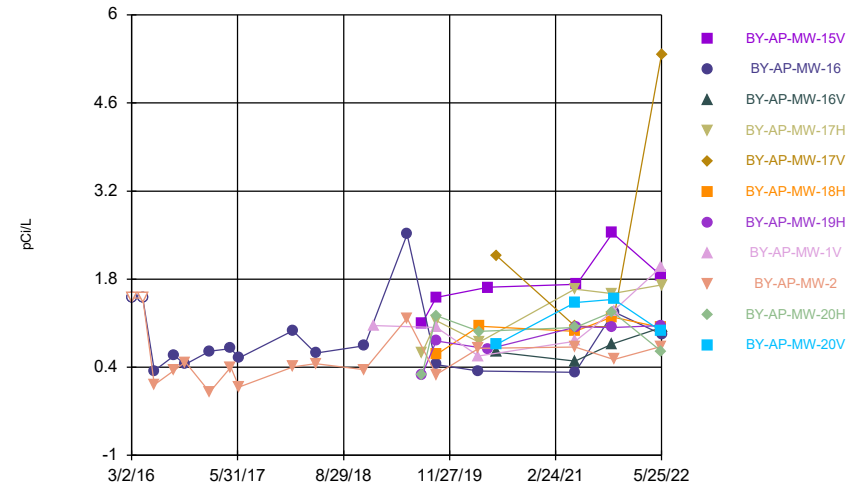
Constituent: Cobalt Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



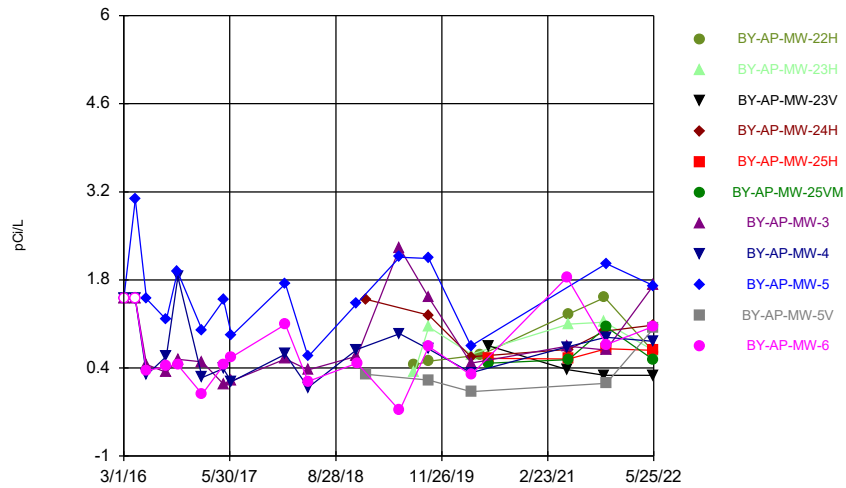
Constituent: Combined Radium 226 + 228 Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



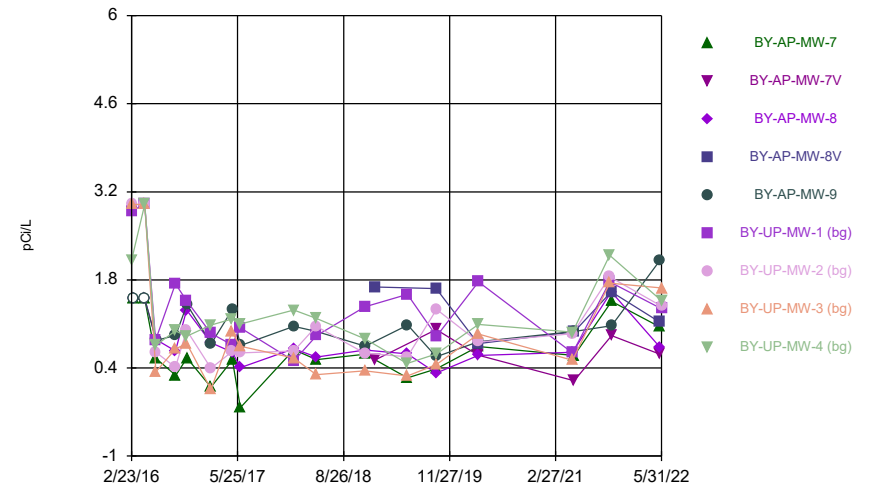
Constituent: Combined Radium 226 + 228 Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



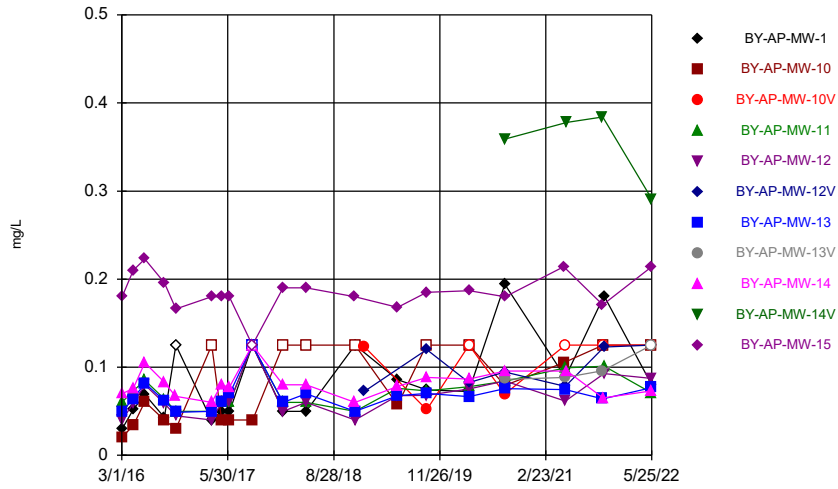
Constituent: Combined Radium 226 + 228 Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



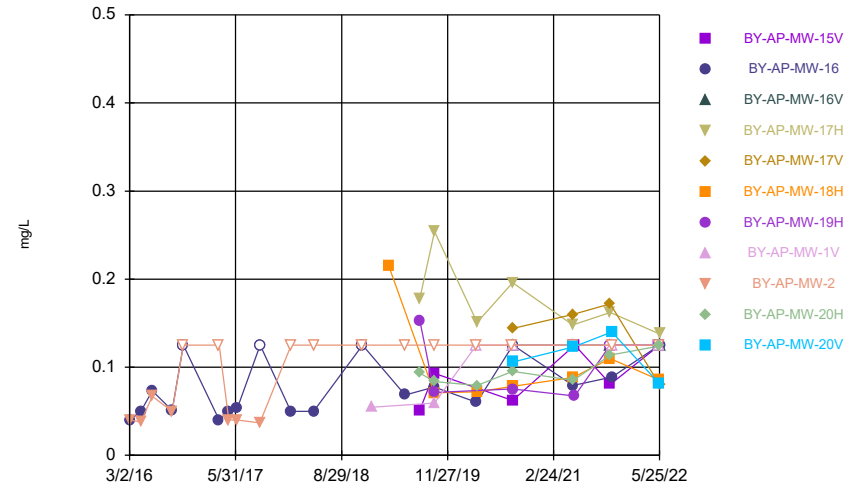
Constituent: Combined Radium 226 + 228 Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



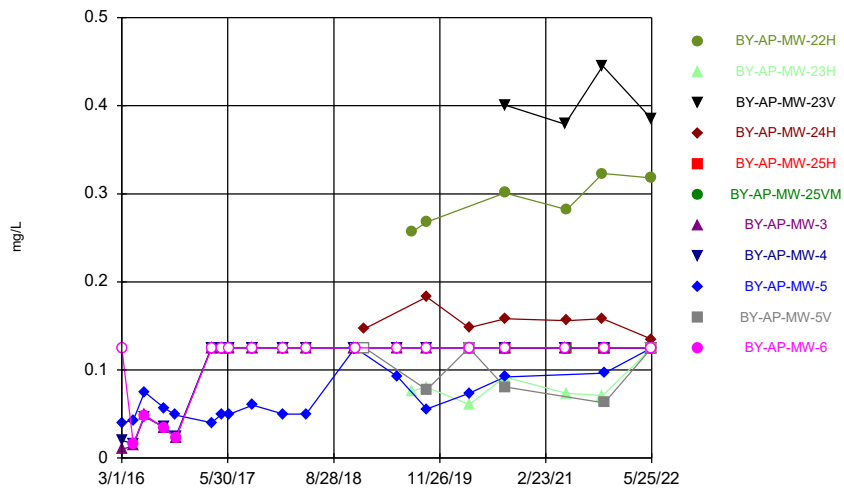
Constituent: Fluoride, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



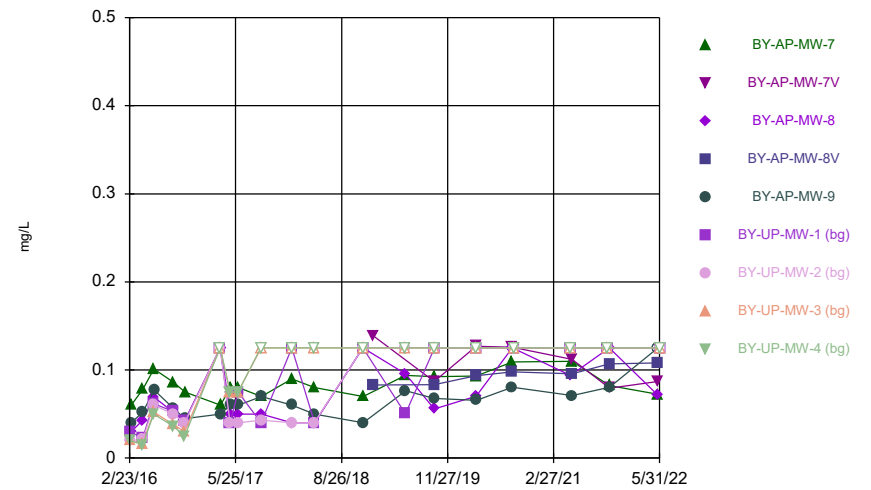
Constituent: Fluoride, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



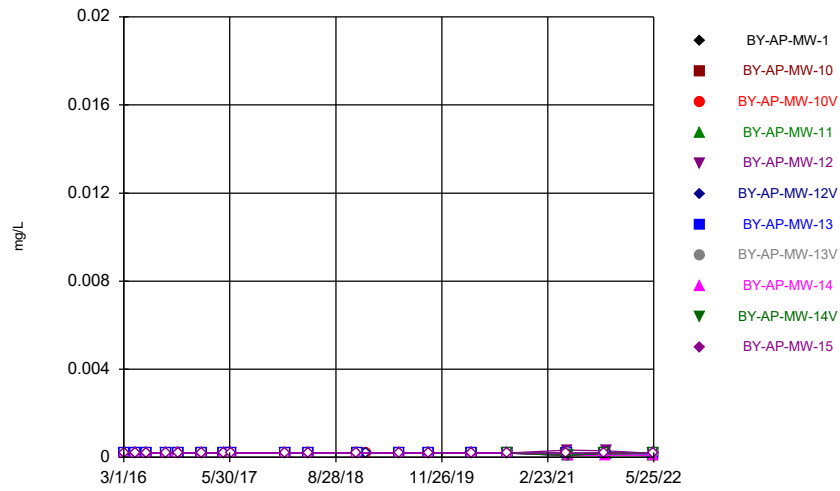
Constituent: Fluoride, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



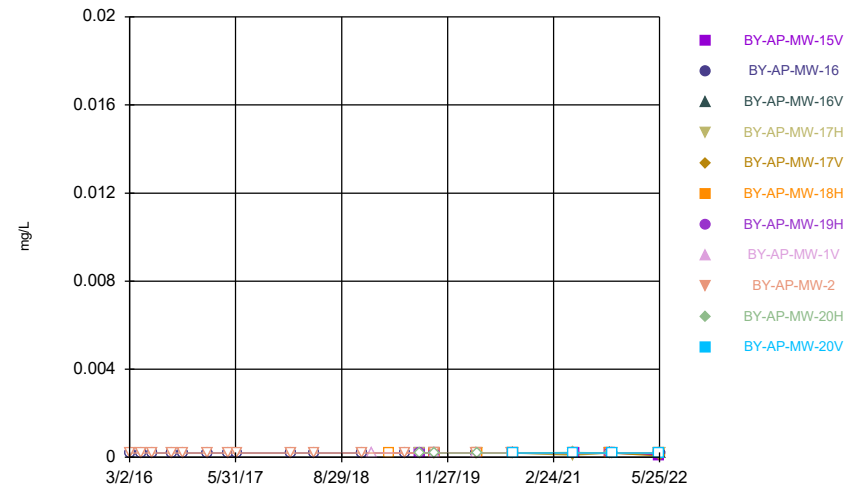
Constituent: Fluoride, total Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



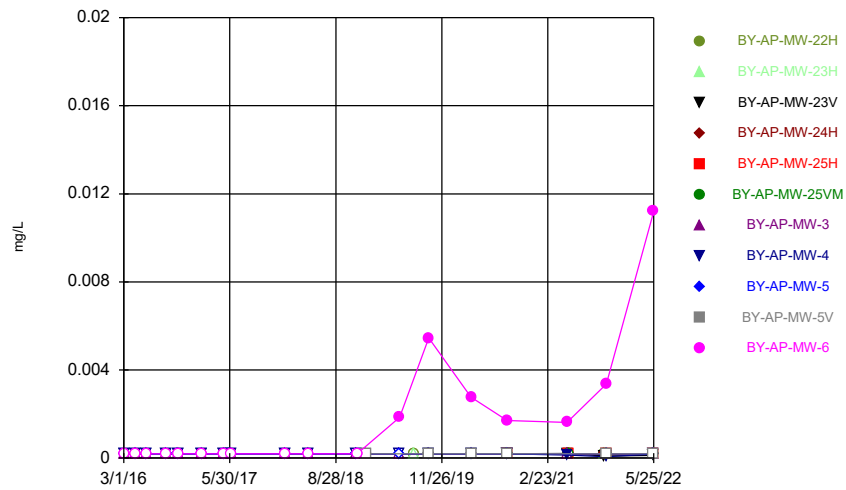
Constituent: Lead Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



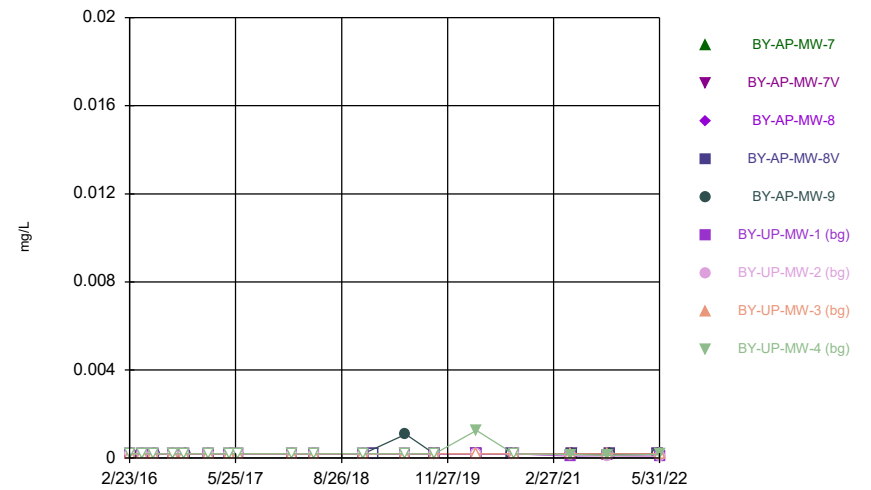
Constituent: Lead Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



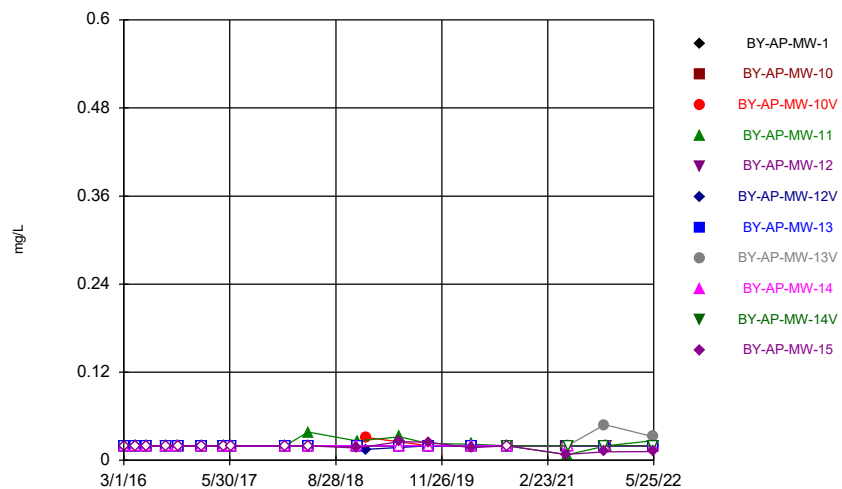
Constituent: Lead Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



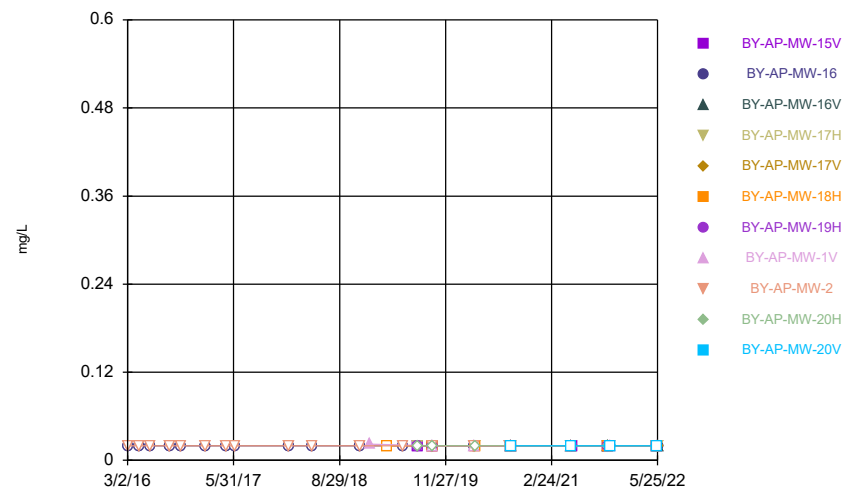
Constituent: Lead Analysis Run 7/21/2022 3:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



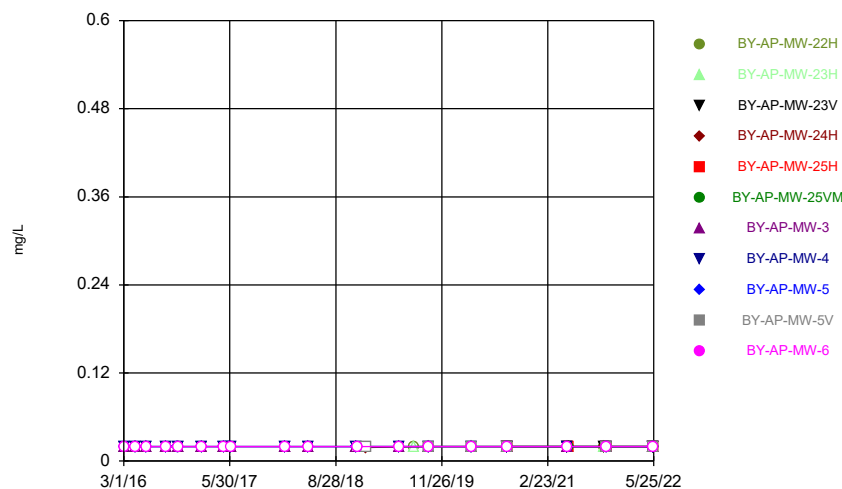
Constituent: Lithium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



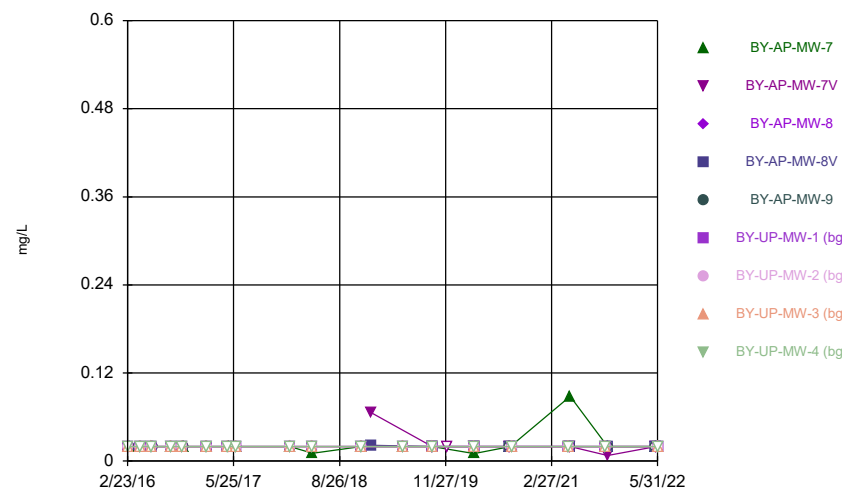
Constituent: Lithium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



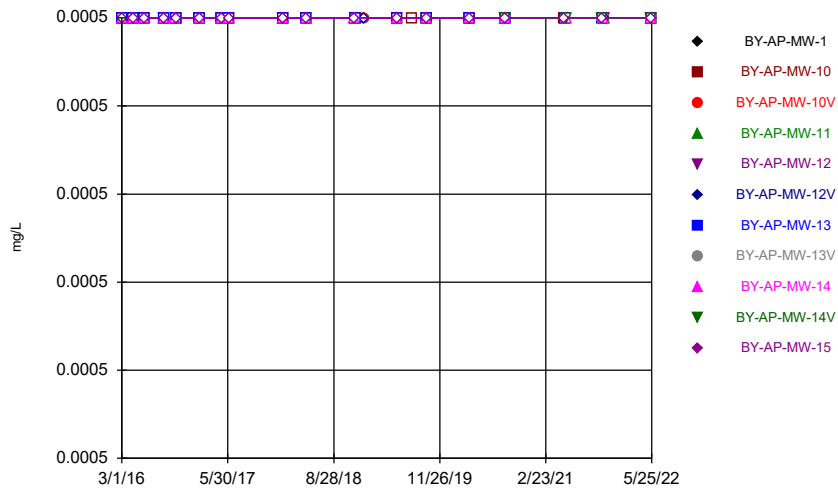
Constituent: Lithium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



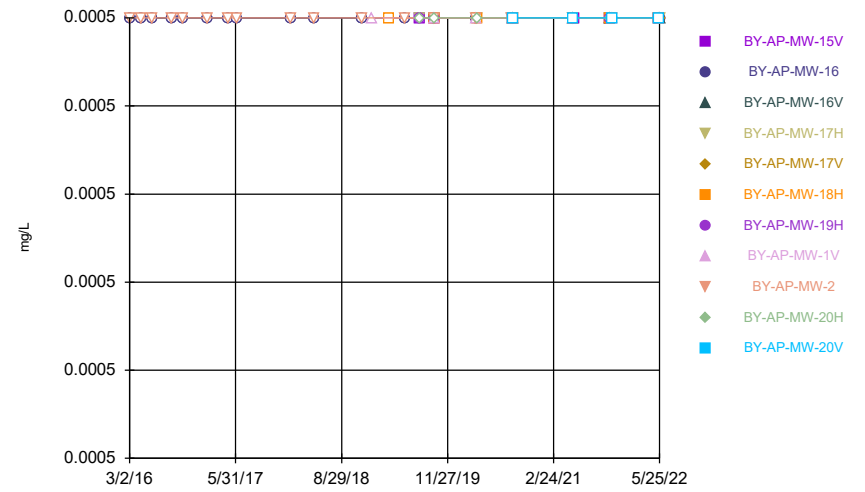
Constituent: Lithium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



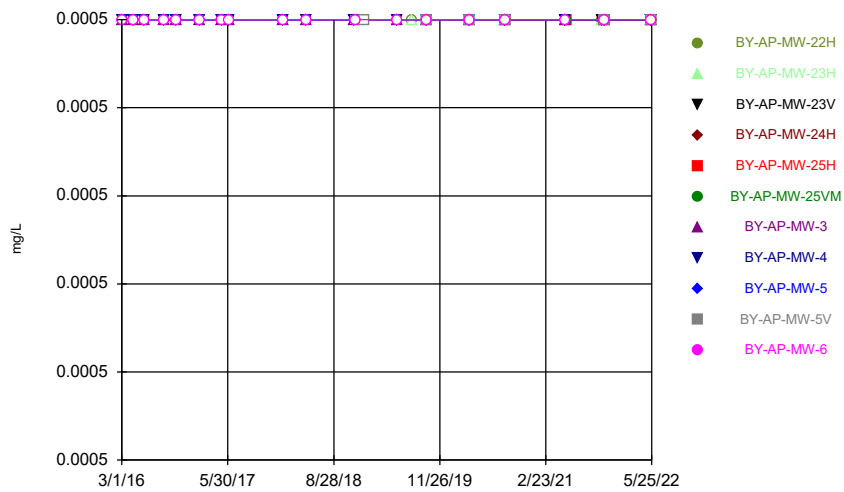
Constituent: Mercury Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



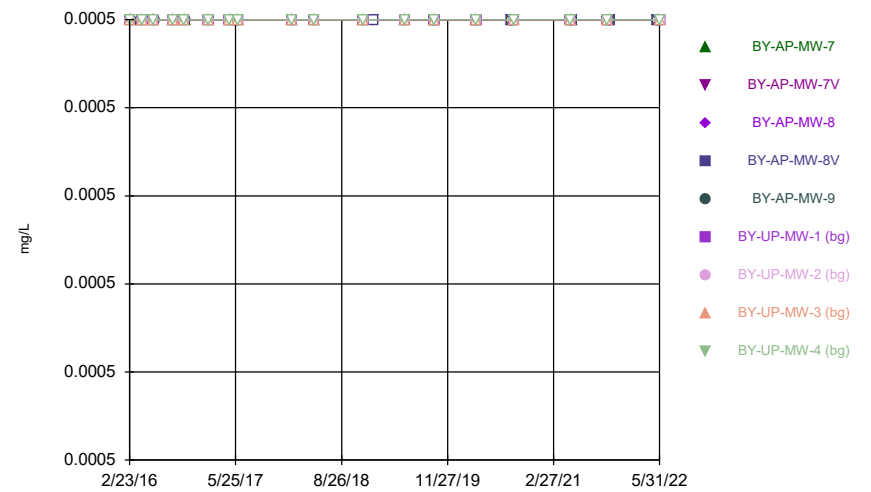
Constituent: Mercury Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



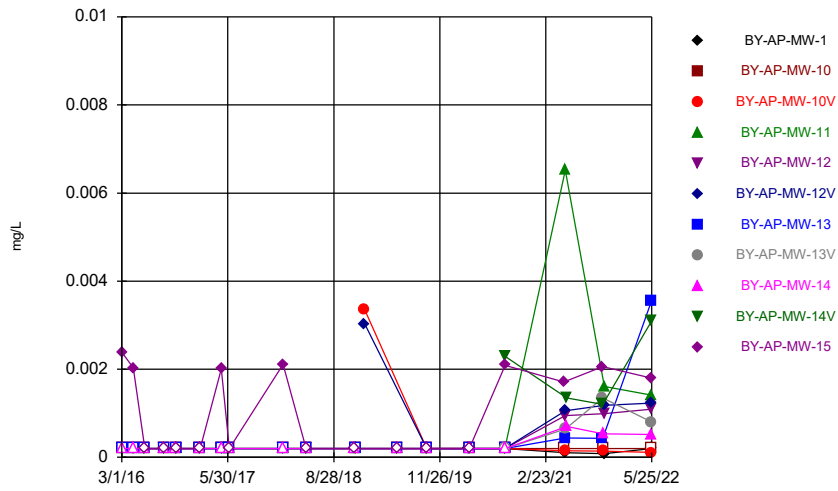
Constituent: Mercury Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



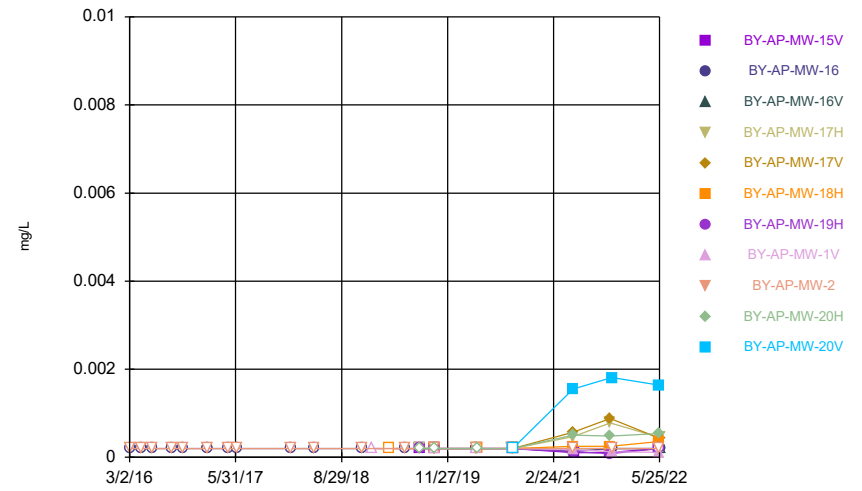
Constituent: Mercury Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



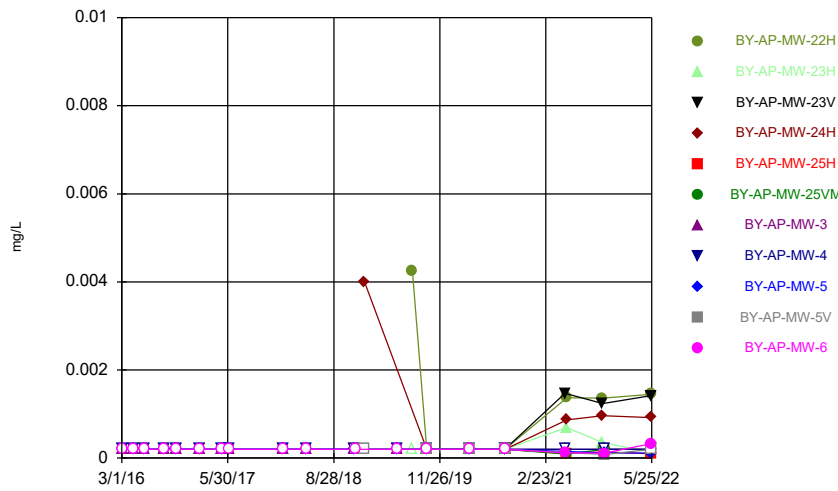
Constituent: Molybdenum Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



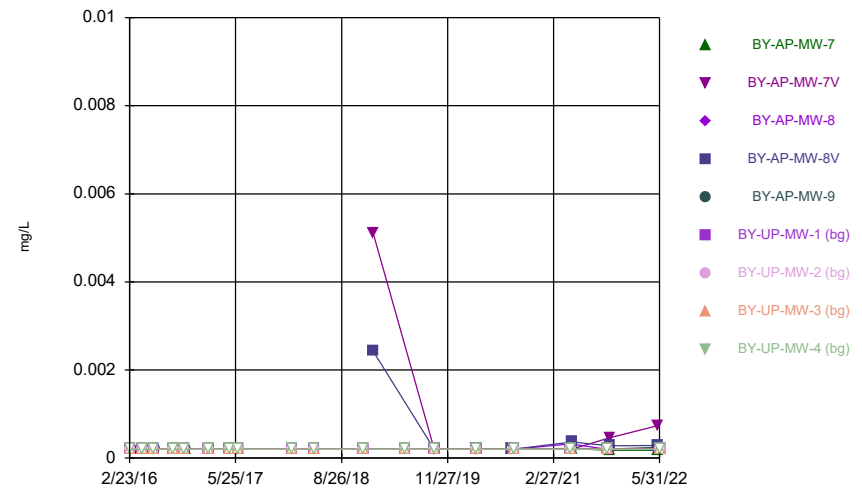
Constituent: Molybdenum Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



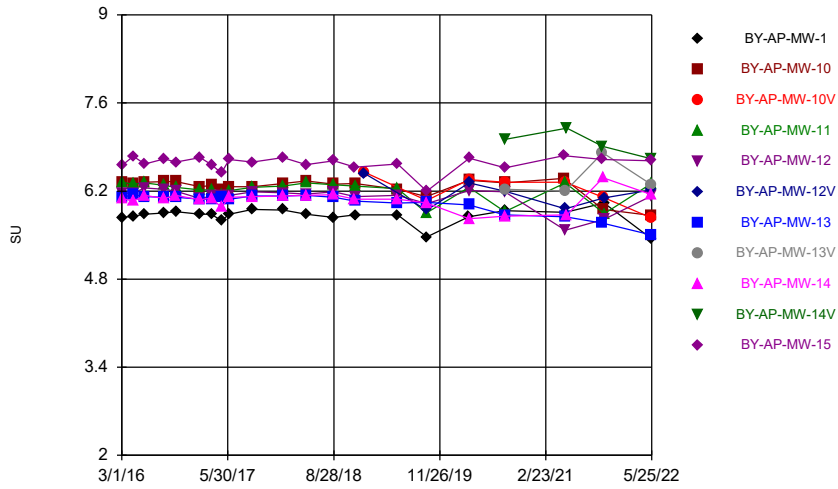
Constituent: Molybdenum Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



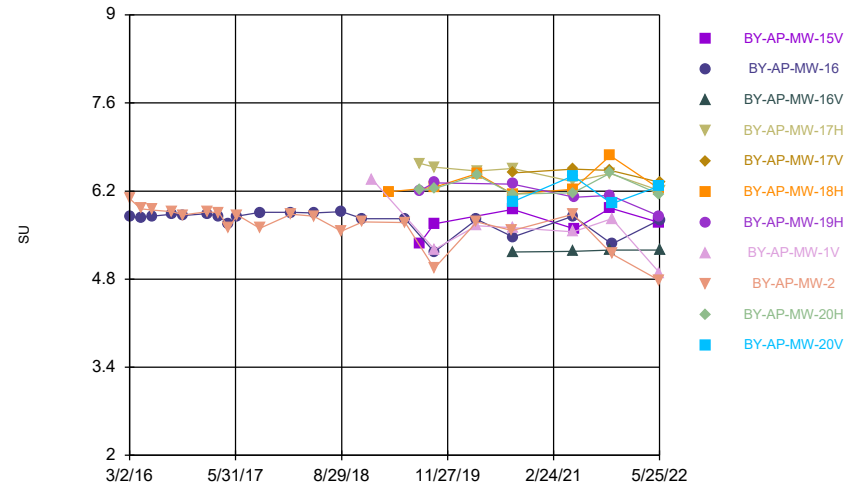
Constituent: Molybdenum Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



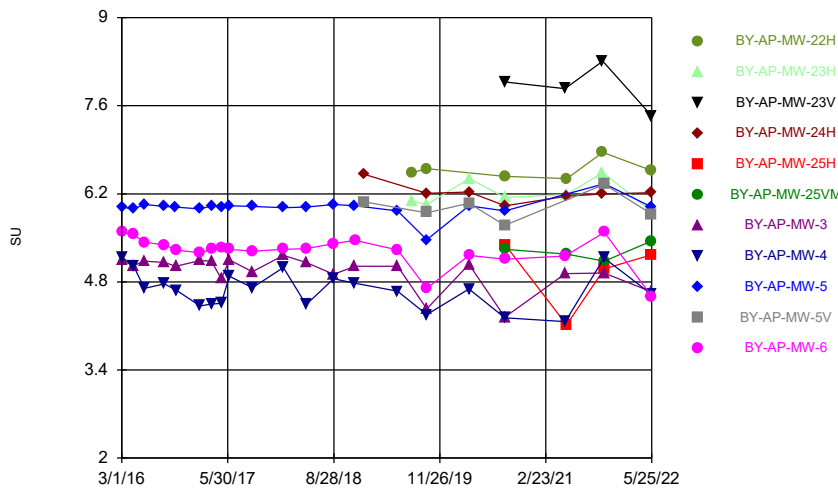
Constituent: pH, field Analysis Run 7/21/2022 3:44 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



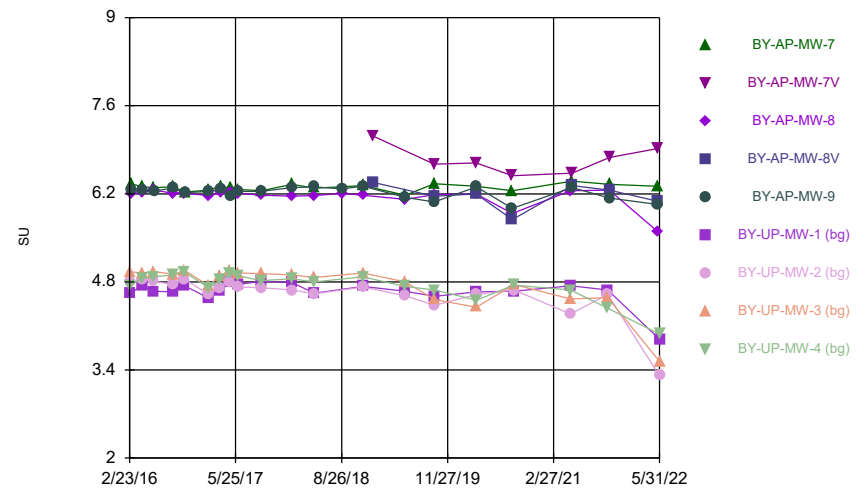
Constituent: pH, field Analysis Run 7/21/2022 3:44 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



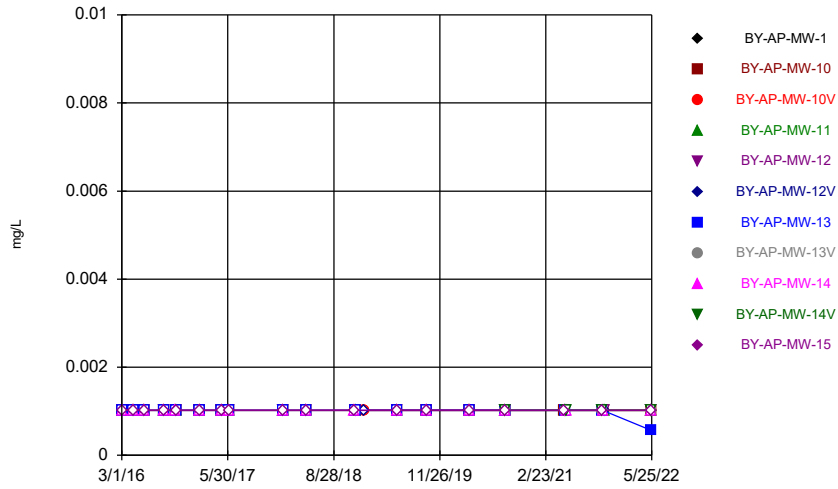
Constituent: pH, field Analysis Run 7/21/2022 3:44 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



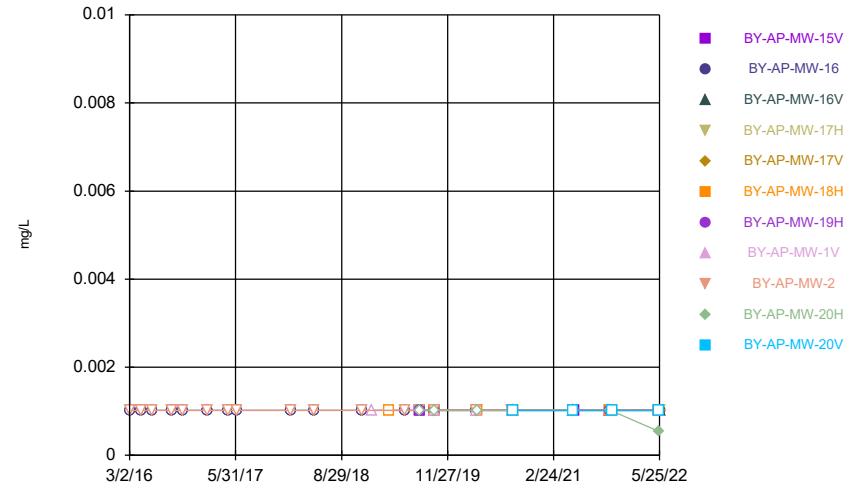
Constituent: pH, field Analysis Run 7/21/2022 3:44 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



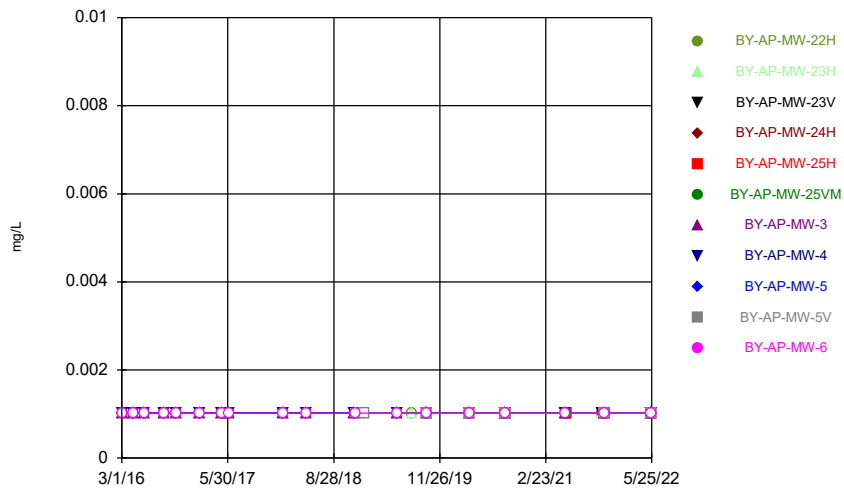
Constituent: Selenium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



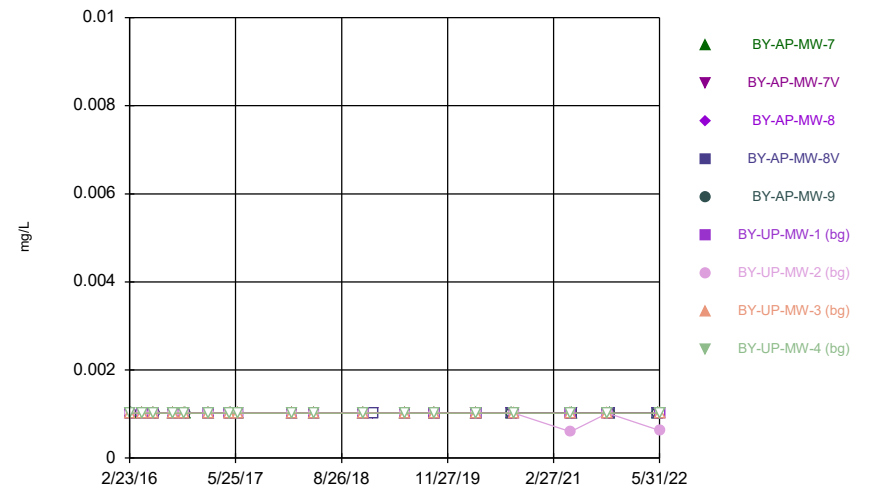
Constituent: Selenium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



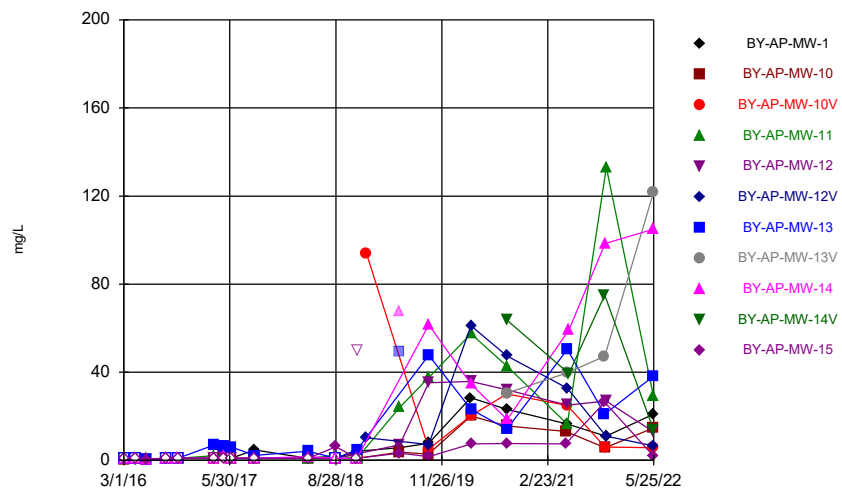
Constituent: Selenium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



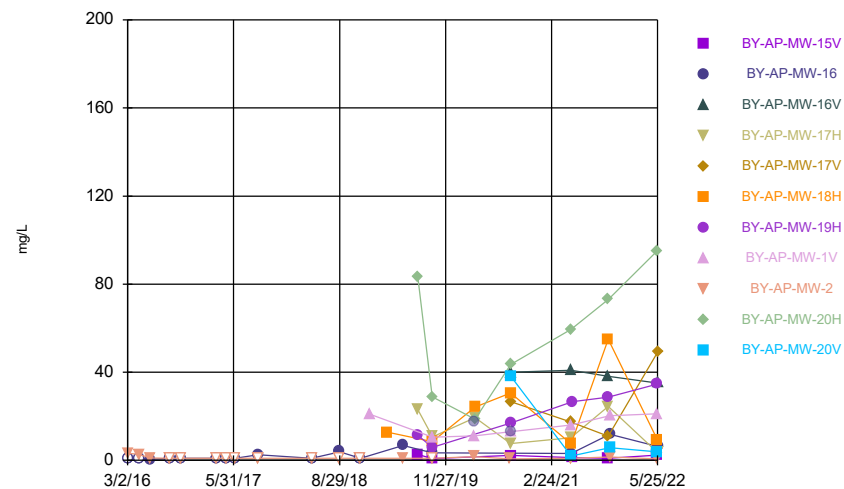
Constituent: Selenium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



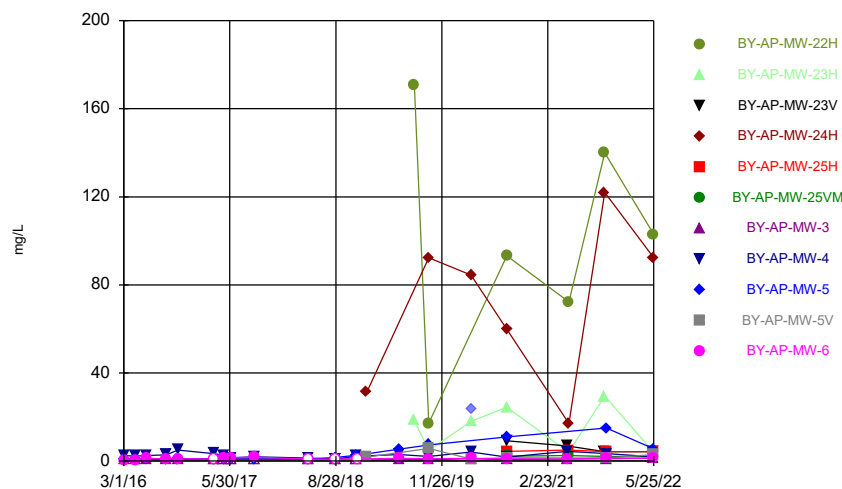
Constituent: Sulfate as SO4 Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



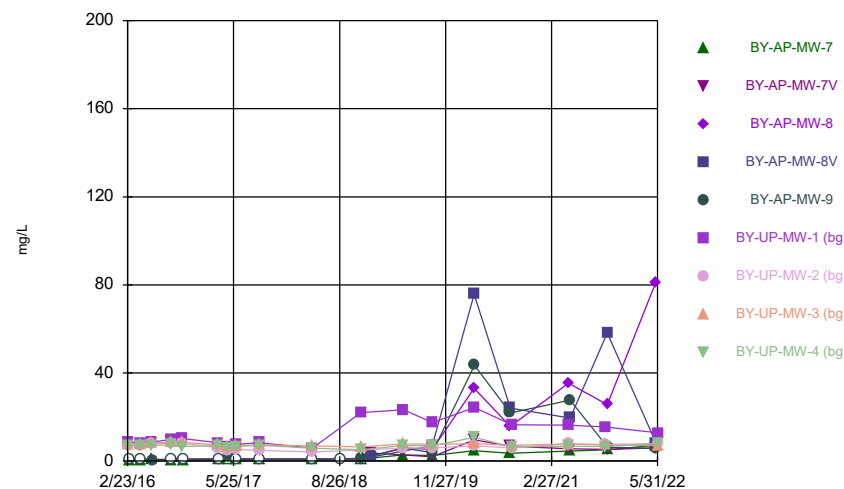
Constituent: Sulfate as SO4 Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



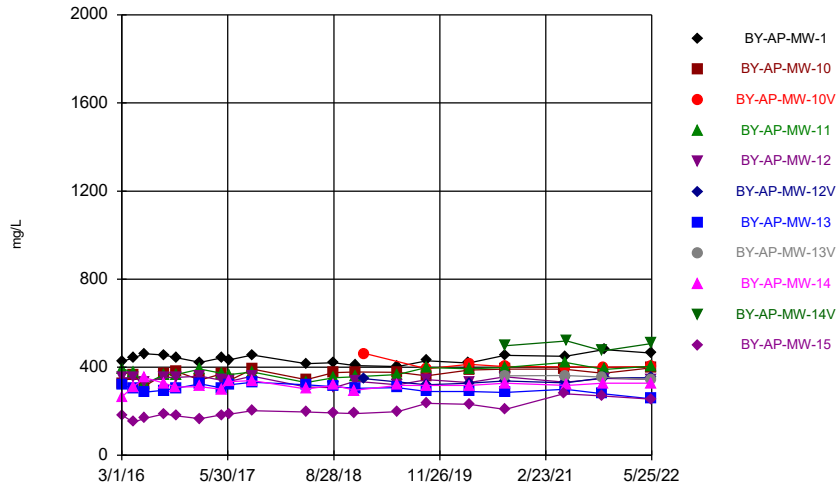
Constituent: Sulfate as SO4 Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



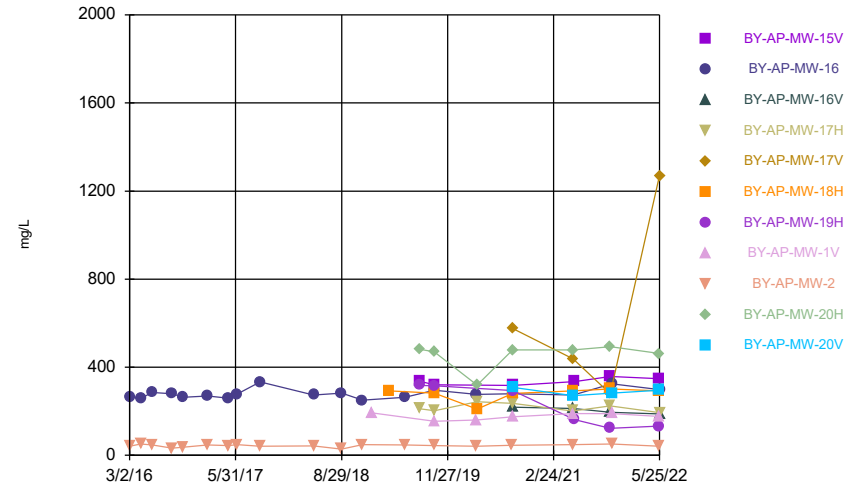
Constituent: Sulfate as SO4 Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



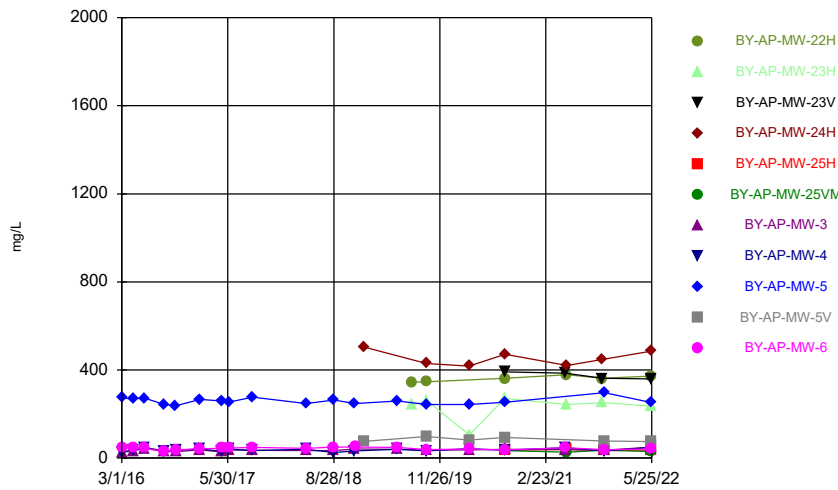
Constituent: TDS Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: TDS Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

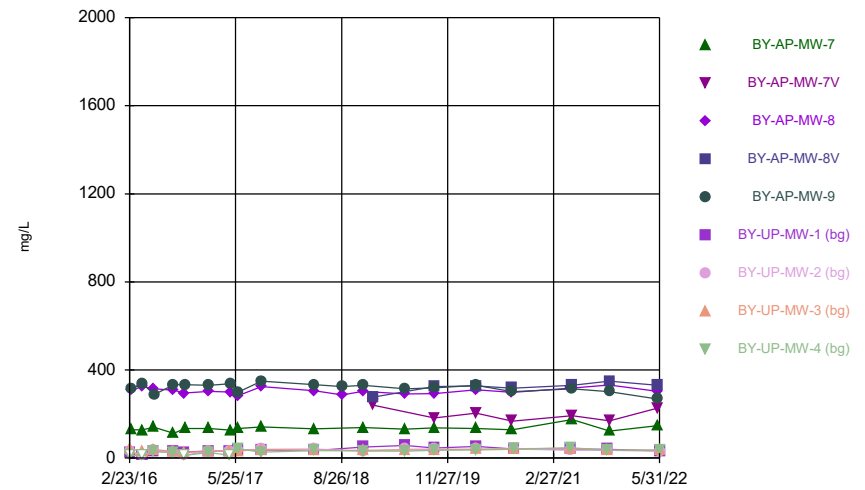
Time Series



Constituent: TDS Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

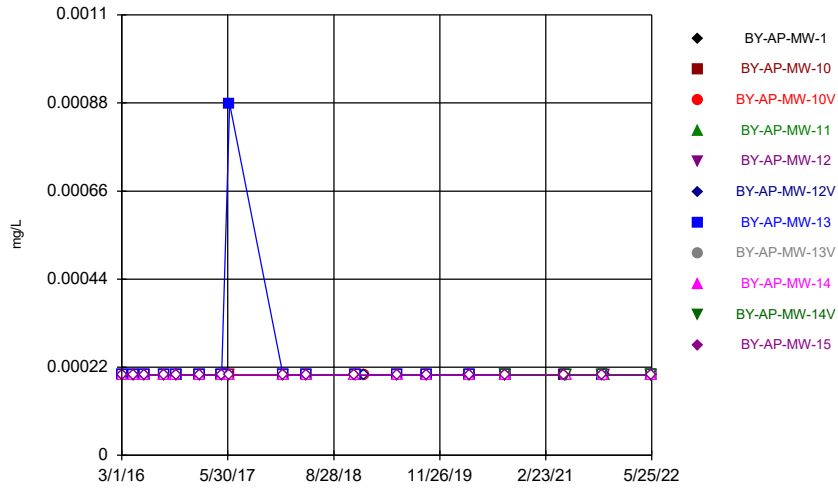
Hollow symbols indicate censored values.

Time Series



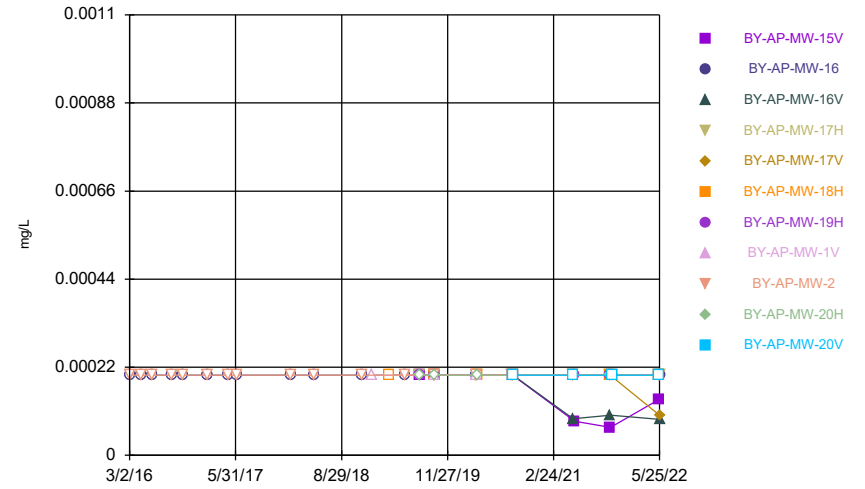
Constituent: TDS Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



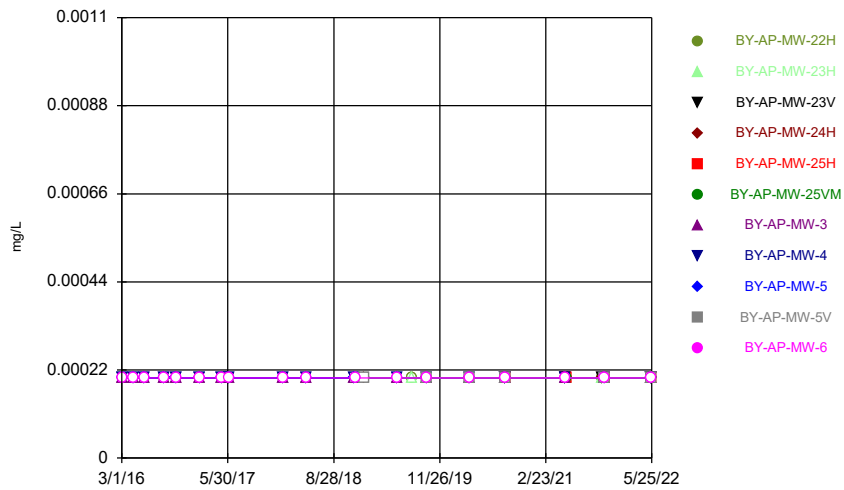
Constituent: Thallium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



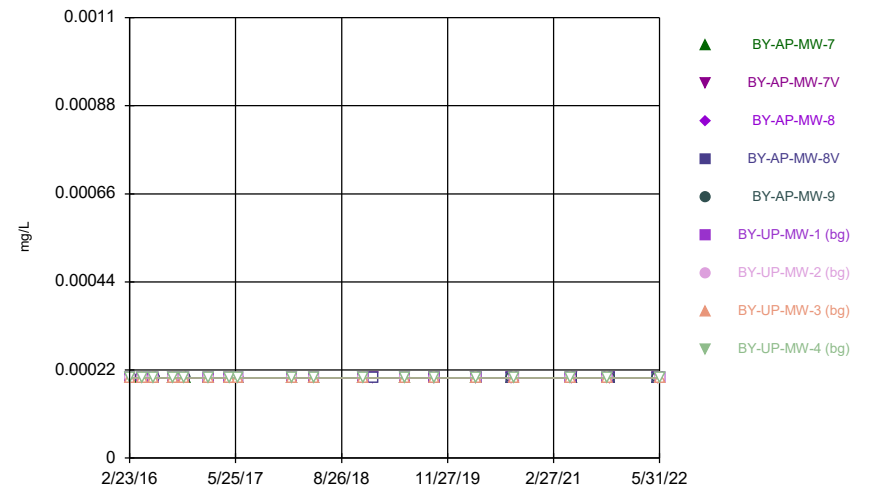
Constituent: Thallium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 7/21/2022 3:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.00102		<0.00102					
3/2/2016	<0.00102				<0.00102		<0.00102		<0.00102
4/19/2016	<0.00102								
4/20/2016		<0.00102		<0.00102	<0.00102		<0.00102		<0.00102
6/8/2016	<0.00102	<0.00102		<0.00102	<0.00102		0.00111 (J)		<0.00102
8/30/2016									<0.00102
8/31/2016	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
10/18/2016									<0.00102
10/19/2016	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
1/31/2017	0.000687 (J)						0.000834 (J)		0.00086 (J)
2/1/2017		0.000743 (J)		0.000812 (J)	0.000838 (J)				
5/2/2017	<0.00102								<0.00102
5/3/2017		<0.00102		<0.00102	<0.00102		<0.00102		
6/6/2017	<0.00102								<0.00102
6/7/2017		<0.00102		<0.00102	<0.00102		0.000857 (J)		
1/22/2018							<0.00102		
1/23/2018		<0.00102		<0.00102	<0.00102				<0.00102
1/24/2018	<0.00102								
5/1/2018	<0.00102								
5/2/2018		<0.00102		<0.00102	<0.00102		<0.00102		<0.00102
11/27/2018									<0.00102
11/28/2018	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
1/8/2019			0.000965 (J)			0.00117 (J)			
5/29/2019	<0.00102			<0.00102	<0.00102		<0.00102		<0.00102
5/30/2019		<0.00102							
9/30/2019		<0.00102		<0.00102					
10/1/2019	<0.00102		<0.00102		<0.00102		<0.00102		<0.00102
10/2/2019						<0.00102			
3/30/2020	<0.00102								
3/31/2020		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
4/1/2020									
9/1/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
9/2/2020								<0.00102	<0.00102
5/11/2021		<0.00102							
5/18/2021	<0.00102		<0.00102		<0.00102	<0.00102			
5/19/2021				<0.00102			<0.00102	<0.00102	
5/25/2021									<0.00102
10/26/2021							<0.00102	<0.00102	
10/27/2021		<0.00102	<0.00102						<0.00102
11/1/2021	<0.00102				<0.00102	<0.00102			
11/2/2021				<0.00102					
5/23/2022				<0.00102	<0.00102	<0.00102			
5/24/2022	<0.00102	<0.00102	<0.00102				<0.00102		
5/25/2022								<0.00102	<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.00102
4/19/2016		<0.00102
4/20/2016		
6/8/2016		<0.00102
8/30/2016		
8/31/2016		<0.00102
10/18/2016		
10/19/2016		<0.00102
1/31/2017		0.000746 (J)
2/1/2017		
5/2/2017		<0.00102
5/3/2017		
6/6/2017		<0.00102
6/7/2017		
1/22/2018		<0.00102
1/23/2018		
1/24/2018		
5/1/2018		<0.00102
5/2/2018		
11/27/2018		<0.00102
11/28/2018		
1/8/2019		
5/29/2019		<0.00102
5/30/2019		
9/30/2019		
10/1/2019		<0.00102
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.00102
9/1/2020		
9/2/2020	<0.00102	<0.00102
5/11/2021		<0.00102
5/18/2021		
5/19/2021		
5/25/2021	<0.00102	
10/26/2021	<0.00102	<0.00102
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.00102	
5/25/2022		<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.00102							<0.00102
4/19/2016		<0.00102							<0.00102
6/8/2016		<0.00102							<0.00102
8/31/2016		<0.00102							<0.00102
10/19/2016		<0.00102							<0.00102
1/31/2017		0.000769 (J)							0.000739 (J)
5/2/2017		<0.00102							<0.00102
6/6/2017		<0.00102							<0.00102
1/23/2018		<0.00102							
1/24/2018									<0.00102
5/1/2018		<0.00102							<0.00102
11/27/2018		<0.00102							<0.00102
1/8/2019								0.00125 (J)	
3/20/2019						0.00117 (J)			
5/29/2019		<0.00102							<0.00102
7/31/2019	0.00094 (J)			0.000878 (J)			0.00152 (J)		
10/1/2019	<0.00102	<0.00102				<0.00102	<0.00102		<0.00102
10/2/2019				<0.00102				<0.00102	
3/30/2020								<0.00102	
3/31/2020		<0.00102							<0.00102
4/1/2020				<0.00102		<0.00102			
8/31/2020									<0.00102
9/1/2020	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
9/2/2020		<0.00102	<0.00102						
5/17/2021				<0.00102					
5/18/2021					<0.00102			<0.00102	<0.00102
5/19/2021		<0.00102	<0.00102			<0.00102			
5/25/2021	<0.00102						<0.00102		
10/25/2021				<0.00102	<0.00102	<0.00102	<0.00102		
10/26/2021	<0.00102		<0.00102						
11/1/2021		<0.00102						<0.00102	<0.00102
5/23/2022						<0.00102			
5/24/2022	<0.00102						<0.00102	<0.00102	<0.00102
5/25/2022		<0.00102	<0.00102	<0.00102	<0.00102				

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.00113 (J)	
10/1/2019	<0.00102	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.00102	
8/31/2020		
9/1/2020	<0.00102	<0.00102
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.00102	<0.00102
5/25/2021		
10/25/2021		
10/26/2021	<0.00102	
11/1/2021		<0.00102
5/23/2022	<0.00102	
5/24/2022		<0.00102
5/25/2022		

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.00102	<0.00102
3/2/2016							<0.00102		
4/19/2016							<0.00102	<0.00102	
4/20/2016									<0.00102
6/7/2016							0.000606 (J)	0.000869 (J)	<0.00102
8/30/2016								<0.00102	<0.00102
8/31/2016							<0.00102		
10/18/2016									<0.00102
10/19/2016							<0.00102	<0.00102	
1/31/2017							0.000637 (J)	0.00086 (J)	0.000765 (J)
5/2/2017							<0.00102	<0.00102	
5/3/2017									<0.00102
6/6/2017							<0.00102	<0.00102	
6/7/2017									<0.00102
1/24/2018							<0.00102	<0.00102	<0.00102
5/1/2018							<0.00102	<0.00102	
5/2/2018									<0.00102
11/27/2018							<0.00102	<0.00102	<0.00102
11/28/2018									
1/8/2019				0.00116 (J)					
5/29/2019							<0.00102	<0.00102	<0.00102
7/31/2019	0.00117 (J)	0.000964 (J)							
10/1/2019	<0.00102	<0.00102					<0.00102	<0.00102	<0.00102
10/2/2019				<0.00102					
3/31/2020				<0.00102			<0.00102	<0.00102	<0.00102
4/1/2020		<0.00102							
9/1/2020	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	<0.00102
9/2/2020				<0.00102	<0.00102	<0.00102			
5/17/2021			<0.00102						
5/18/2021							<0.00102	<0.00102	
5/24/2021		<0.00102			<0.00102	<0.00102			
5/25/2021	<0.00102			<0.00102					
10/26/2021	<0.00102	<0.00102	<0.00102	<0.00102					
11/1/2021							<0.00102	<0.00102	
11/2/2021					<0.00102	<0.00102			<0.00102
5/24/2022	<0.00102			<0.00102					
5/25/2022		<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.00102
3/2/2016		
4/19/2016		<0.00102
4/20/2016		
6/7/2016		<0.00102
8/30/2016		<0.00102
8/31/2016		
10/18/2016		
10/19/2016		<0.00102
1/31/2017		0.000852 (J)
5/2/2017		
5/3/2017		<0.00102
6/6/2017		
6/7/2017		<0.00102
1/24/2018		<0.00102
5/1/2018		
5/2/2018		<0.00102
11/27/2018		
11/28/2018		<0.00102
1/8/2019	0.00207 (J)	
5/29/2019		<0.00102
7/31/2019		
10/1/2019		<0.00102
10/2/2019	<0.00102	
3/31/2020	<0.00102	<0.00102
4/1/2020		
9/1/2020	<0.00102	
9/2/2020		<0.00102
5/17/2021		<0.00102
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.00102	<0.00102
5/24/2022		
5/25/2022	<0.00102	<0.00102

Time Series

Constituent: Antimony (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.00102	<0.00102	<0.00102	0.000606 (J)
3/1/2016	<0.00102		<0.00102		<0.00102				
4/19/2016						<0.00102	<0.00102	<0.00102	<0.00102
4/20/2016	<0.00102		<0.00102		<0.00102				
6/6/2016						<0.00102			<0.00102
6/7/2016	<0.00102		<0.00102				<0.00102	<0.00102	
6/8/2016					<0.00102				
8/30/2016			<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
8/31/2016	<0.00102				<0.00102				
10/18/2016			<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
10/19/2016	<0.00102				<0.00102				
1/31/2017	0.00107 (J)		0.00074 (J)			0.000925 (J)	0.000898 (J)	0.000911 (J)	0.000928 (J)
2/1/2017					0.000738 (J)				
5/2/2017						<0.00102	<0.00102	<0.00102	<0.00102
5/3/2017	<0.00102		<0.00102		<0.00102				
6/6/2017						<0.00102	<0.00102	<0.00102	<0.00102
6/7/2017	<0.00102		<0.00102		<0.00102				
1/23/2018					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
1/24/2018	<0.00102		<0.00102						
5/1/2018							<0.00102	<0.00102	<0.00102
5/2/2018	<0.00102		<0.00102		<0.00102	<0.00102			
11/26/2018									<0.00102
11/27/2018			<0.00102			<0.00102	<0.00102	<0.00102	
11/28/2018	<0.00102				<0.00102				
1/9/2019		0.000861 (J)		<0.00102					
5/28/2019									<0.00102
5/29/2019	<0.00102		<0.00102			<0.00102	<0.00102	<0.00102	
5/30/2019					<0.00102				
9/30/2019	<0.00102		<0.00102		<0.00102				
10/1/2019		<0.00102		<0.00102					
10/2/2019						<0.00102	<0.00102	<0.00102	<0.00102
3/30/2020	<0.00102	<0.00102	<0.00102	<0.00102					
3/31/2020					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/2/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102				
9/8/2020									<0.00102
9/9/2020						<0.00102	<0.00102	<0.00102	
5/11/2021			<0.00102				<0.00102	<0.00102	<0.00102
5/12/2021						<0.00102			
5/18/2021	<0.00102	<0.00102		<0.00102	<0.00102				
10/18/2021								<0.00102	<0.00102
10/19/2021						<0.00102	<0.00102		
10/26/2021			<0.00102	<0.00102					
10/27/2021	<0.00102	<0.00102			<0.00102				
5/23/2022				<0.00102					
5/24/2022	<0.00102	<0.00102	<0.00102		<0.00102				
5/31/2022						<0.00102	<0.00102	<0.00102	<0.00102

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		0.0264		0.01					
3/2/2016	0.076				0.0215		0.0115		0.0101
4/19/2016	0.0973								
4/20/2016		0.0303		0.0127	0.0214		0.0123		0.0119
6/8/2016	0.0605	0.0306		0.0136	0.0221		0.0121		0.0119
8/30/2016									0.0127
8/31/2016	0.0687	0.0304		0.0149	0.0223		0.0127		
10/18/2016									0.0136
10/19/2016	0.0701	0.0314		0.0149	0.0227		0.0131		
1/31/2017	0.0669						0.0131		0.0124
2/1/2017		0.0274		0.0151	0.0215				
5/2/2017	0.0672								0.0131
5/3/2017		0.03		0.0155	0.0227		0.014		
6/6/2017	0.0527								0.0129
6/7/2017		0.0303		0.0145	0.0211		0.0141		
1/22/2018							0.0149		
1/23/2018		0.0362		0.0154	0.0227				0.0148
1/24/2018	0.07								
5/1/2018	0.0777								
5/2/2018		0.0433		0.0158	0.0239		0.0175		0.0156
11/27/2018									0.0145
11/28/2018	0.0677	0.0536		0.014	0.0216		0.0141		
1/8/2019			<0.0002			0.0112			
5/29/2019	0.0555			0.0132	0.0215		0.0138		0.014
5/30/2019		0.0671							
7/31/2019		0.0649							
9/30/2019		0.0704		0.0145					
10/1/2019	0.0635		<0.0002		0.0221		0.0144		0.0152
10/2/2019						0.022			
3/30/2020	0.0557								
3/31/2020		0.0702	<0.0002	0.0158	0.0246	0.025	0.0154		0.0177
4/1/2020									
9/1/2020	0.0811	0.0763	<0.0002	0.0165	0.0246	0.0257	0.0148		
9/2/2020								0.00708	0.0174
5/11/2021		0.0762							
5/18/2021	0.0687		0.000356		0.0237	0.0251			
5/19/2021				0.0166			0.014	0.00877	
5/25/2021									0.0172
10/26/2021							0.013	0.0103	
10/27/2021		0.0705	0.00033						0.0174
11/1/2021	0.0694				0.0245	0.0256			
11/2/2021				0.0161					
5/23/2022				0.0142	0.0245	0.0257			
5/24/2022	0.0767	0.0775	0.00036				0.0128		
5/25/2022								0.0102	0.0183

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.0128
4/19/2016		0.0157
4/20/2016		
6/8/2016		0.0168
8/30/2016		
8/31/2016		0.0168
10/18/2016		
10/19/2016		0.0178
1/31/2017		0.0164
2/1/2017		
5/2/2017		0.0172
5/3/2017		
6/6/2017		0.0158
6/7/2017		
1/22/2018		0.0173
1/23/2018		
1/24/2018		
5/1/2018		0.0181
5/2/2018		
11/27/2018		0.0158
11/28/2018		
1/8/2019		
5/29/2019		0.0148
5/30/2019		
7/31/2019		
9/30/2019		
10/1/2019		0.017
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.0183
9/1/2020		
9/2/2020	0.00433 (J)	0.0206
5/11/2021		0.0184
5/18/2021		
5/19/2021		
5/25/2021	0.00324	
10/26/2021	0.0041	0.0186
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.00572	
5/25/2022		0.0176

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		0.0102							0.00263 (J)
4/19/2016		0.0103							0.00247 (J)
6/8/2016		0.0105							0.0023 (J)
8/31/2016		0.0117							0.00237 (J)
10/19/2016		0.0108							0.00241 (J)
1/31/2017		0.0102							0.00185 (J)
5/2/2017		0.0102							0.00194 (J)
6/6/2017		0.00982							0.00175 (J)
1/23/2018		0.0151							
1/24/2018									0.00158 (J)
5/1/2018		0.0114							0.00166 (J)
11/27/2018		0.0108							0.00144 (J)
1/8/2019								0.00109 (J)	
3/20/2019						0.00831			
5/29/2019		0.0106							0.00132 (J)
7/31/2019	0.0174			0.0221			0.00118 (J)		
10/1/2019	0.0243	0.0138				0.0137	<0.0002		0.0014 (J)
10/2/2019				0.0251				0.00157 (J)	
3/30/2020								0.00152 (J)	
3/31/2020		0.012							0.00149 (J)
4/1/2020				0.0208		0.00937			
8/31/2020									0.00176 (J)
9/1/2020	0.0401			0.0371	0.00472 (J)	0.015	0.00101 (J)	0.00179 (J)	
9/2/2020		0.0137	0.0012 (J)						
5/17/2021				0.0329					
5/18/2021					0.00546			0.00144	0.00159
5/19/2021		0.0118	0.00123			0.0147			
5/25/2021	0.0233						0.0015		
10/25/2021				0.0373	0.00162	0.0156	0.00134		
10/26/2021	0.0248		0.00105						
11/1/2021		0.0151						0.00086	0.00191
5/23/2022						0.0143			
5/24/2022	0.0333						0.00099	0.00079	0.00115
5/25/2022		0.0134	0.00112	0.03	0.00192				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.0112	
10/1/2019	0.013	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.00508	
8/31/2020		
9/1/2020	0.0172	0.00845
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.0132	0.0148
5/25/2021		
10/25/2021		
10/26/2021	0.0133	
11/1/2021		0.0182
5/23/2022	0.0136	
5/24/2022		0.0188
5/25/2022		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.0002	0.0277
3/2/2016							<0.0002		
4/19/2016							<0.0002	<0.0002	
4/20/2016									0.0307
6/7/2016							<0.0002	<0.0002	0.0308
8/30/2016								<0.0002	0.033
8/31/2016							<0.0002		
10/18/2016									0.0296
10/19/2016							<0.0002	<0.0002	
1/31/2017							<0.0002	<0.0002	0.0264
5/2/2017							<0.0002	<0.0002	
5/3/2017									0.0309
6/6/2017							<0.0002	<0.0002	
6/7/2017									0.0283
1/24/2018							<0.0002	<0.0002	0.0282
5/1/2018							<0.0002	<0.0002	
5/2/2018									0.0315
11/27/2018							<0.0002	<0.0002	0.0283
11/28/2018									
1/8/2019				0.0306					
5/29/2019							<0.0002	<0.0002	0.0301
7/31/2019	0.0225	0.0132							
10/1/2019	0.0225	0.013					<0.0002	<0.0002	0.0307
10/2/2019				0.0673					
3/31/2020				0.0729			<0.0002	<0.0002	0.0329
4/1/2020		0.00689							
9/1/2020	0.0217	0.0226	<0.0002				<0.0002	<0.0002	0.0372
9/2/2020				0.0783	<0.0002	<0.0002			
5/17/2021			0.00119						
5/18/2021							<0.0002	0.000125 (J)	
5/24/2021		0.0133			8.73E-05 (J)	<0.0002			
5/25/2021	0.0191			0.0693					
10/26/2021	0.0202	0.00807	0.00119	0.0752					
11/1/2021							<0.0002	0.0002	
11/2/2021					0.00016 (J)	<0.0002			0.0357
5/24/2022	0.0197			0.0718					
5/25/2022		0.00518	0.00149		0.0002 (J)	<0.0002	<0.0002	<0.0002	0.0316

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		0.00142 (J)
3/2/2016		
4/19/2016		0.00138 (J)
4/20/2016		
6/7/2016		<0.0002
8/30/2016		<0.0002
8/31/2016		
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
5/2/2017		
5/3/2017		<0.0002
6/6/2017		
6/7/2017		<0.0002
1/24/2018		<0.0002
5/1/2018		
5/2/2018		<0.0002
11/27/2018		
11/28/2018		<0.0002
1/8/2019	<0.0002	
5/29/2019		<0.0002
7/31/2019		
10/1/2019		<0.0002
10/2/2019	<0.0002	
3/31/2020	<0.0002	<0.0002
4/1/2020		
9/1/2020	<0.0002	
9/2/2020		<0.0002
5/17/2021		0.000103 (J)
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	0.00101	0.0001 (J)
5/24/2022		
5/25/2022	0.00017 (J)	<0.0002

Time Series

Constituent: Arsenic (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.0002	<0.0002	<0.0002	<0.0002
3/1/2016	0.0166		0.036		0.0322				
4/19/2016						<0.0002	<0.0002	<0.0002	<0.0002
4/20/2016	0.02		0.0399		0.0354				
6/6/2016						<0.0002			<0.0002
6/7/2016	0.0223		0.0401				<0.0002	<0.0002	
6/8/2016					0.0385				
8/30/2016			0.0387			<0.0002	<0.0002	<0.0002	<0.0002
8/31/2016	0.0231				0.0404				
10/18/2016			0.0394			<0.0002	<0.0002	<0.0002	<0.0002
10/19/2016	0.0244				0.0412				
1/31/2017	0.0197		0.0408			<0.0002	<0.0002	<0.0002	<0.0002
2/1/2017					0.0374				
5/2/2017						<0.0002	<0.0002	<0.0002	<0.0002
5/3/2017	0.0212		0.0416		0.0444				
6/6/2017						<0.0002	<0.0002	<0.0002	<0.0002
6/7/2017	0.0203		0.0395		0.0423				
1/23/2018					0.0435	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2018	0.0214		0.0536						
5/1/2018							<0.0002	<0.0002	<0.0002
5/2/2018	0.0218		0.0572		0.0437	<0.0002			
11/26/2018									<0.0002
11/27/2018			0.0536			<0.0002	<0.0002	<0.0002	
11/28/2018	0.0209				0.0422				
1/9/2019		<0.0002		0.00121 (J)					
5/28/2019									<0.0002
5/29/2019	0.0178		0.0482			<0.0002	<0.0002	<0.0002	
5/30/2019					0.0349				
9/30/2019	0.0217		0.0514		0.0391				
10/1/2019		0.00278 (J)		0.00243 (J)					
10/2/2019						<0.0002	<0.0002	<0.0002	<0.0002
3/30/2020	0.0215	0.005	0.0589	0.00275 (J)					
3/31/2020					0.0393	<0.0002	<0.0002	<0.0002	0.0017 (J)
9/2/2020	0.0234	0.0024 (J)	0.0629	0.00346 (J)	0.0432				
9/8/2020									<0.0002
9/9/2020						<0.0002	<0.0002	<0.0002	
5/11/2021			0.0659				0.000136 (J)	<0.0002	0.000217
5/12/2021						0.000336			
5/18/2021	0.0215	0.00242		0.00398	0.0435				
10/18/2021								9E-05 (J)	0.00019 (J)
10/19/2021						0.00035	0.00012 (J)		
10/26/2021			0.0668	0.0048					
10/27/2021	0.0236	0.0027			0.0468				
5/23/2022				0.00386					
5/24/2022	0.0197	0.00218	0.0583		0.0404				
5/31/2022						0.00024	9E-05 (J)	<0.0002	0.0002

Time Series

Constituent: Barium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		0.0634		0.122					
3/2/2016	0.219				0.0815		0.0947		0.0491
4/19/2016	0.201								
4/20/2016		0.0622		0.11	0.0692		0.0758		0.049
6/8/2016	0.274	0.0642		0.105	0.0763		0.071		0.0627
8/30/2016									0.0635
8/31/2016	0.296	0.063		0.102	0.0741		0.0722		
10/18/2016									0.0603
10/19/2016	0.281	0.0577		0.0953	0.0727		0.0707		
1/31/2017	0.211						0.0686		0.0533
2/1/2017		0.0607		0.0917	0.0701				
5/2/2017	0.29								0.0616
5/3/2017		0.0665		0.0951	0.078		0.0756		
6/6/2017	0.25								0.0585
6/7/2017		0.0632		0.0864	0.0682		0.0695		
1/22/2018							0.0688		
1/23/2018		0.0673		0.0868	0.0744				0.0608
1/24/2018	0.289								
5/1/2018	0.28								
5/2/2018		0.0752		0.0816	0.0814		0.0806		0.0614
11/27/2018									0.0589
11/28/2018	0.271	0.066		0.0796	0.0788		0.0697		
1/8/2019			0.149			0.144			
5/29/2019	0.29			0.0653	0.0769		0.0704		0.0617
5/30/2019		0.063							
9/30/2019		0.0669		0.0759					
10/1/2019	0.293		0.167		0.0795		0.0696		0.0605
10/2/2019						0.101			
3/30/2020	0.279								
3/31/2020		0.0727	0.184	0.0842	0.0851	0.0939	0.0728		0.0619
4/1/2020									
9/1/2020	0.33	0.078	0.203	0.0923	0.0827	0.102	0.0722		
9/2/2020								0.109	0.0687
5/11/2021		0.0757							
5/18/2021	0.339		0.212		0.0902	0.111			
5/19/2021				0.112			0.0817	0.114	
5/25/2021									0.0745
10/26/2021							0.0667	0.0827	
10/27/2021		0.0638	0.182						0.0651
11/1/2021	0.322				0.0823	0.103			
11/2/2021				0.0894					
5/23/2022				0.0691	0.0802	0.103			
5/24/2022	0.343	0.0618	0.188				0.0723		
5/25/2022								0.0888	0.0693

Time Series

Constituent: Barium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.0468
4/19/2016		0.043
4/20/2016		
6/8/2016		0.0465
8/30/2016		
8/31/2016		0.0464
10/18/2016		
10/19/2016		0.0481
1/31/2017		0.0427
2/1/2017		
5/2/2017		0.0473
5/3/2017		
6/6/2017		0.0437
6/7/2017		
1/22/2018		0.0501
1/23/2018		
1/24/2018		
5/1/2018		0.0575
5/2/2018		
11/27/2018		0.0557
11/28/2018		
1/8/2019		
5/29/2019		0.0562
5/30/2019		
9/30/2019		
10/1/2019		0.0628
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.0697
9/1/2020		
9/2/2020	0.0766	0.0736
5/11/2021		0.0762
5/18/2021		
5/19/2021		
5/25/2021	0.0729	
10/26/2021	0.0653	0.0784
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.067	
5/25/2022		0.0846

Time Series

Constituent: Barium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		0.0921							0.0285
4/19/2016		0.0775							0.0268
6/8/2016		0.0798							0.0248
8/31/2016		0.0801							0.026
10/19/2016		0.0766							0.0247
1/31/2017		0.075							0.0228
5/2/2017		0.0761							0.0257
6/6/2017		0.07							0.0219
1/23/2018		0.0779							
1/24/2018									0.0229
5/1/2018		0.0877							0.0279
11/27/2018		0.0792							0.0249
1/8/2019								0.0826	
3/20/2019						0.152			
5/29/2019		0.081							0.0232
7/31/2019	0.144			0.138			0.14		
10/1/2019	0.13	0.0803				0.126	0.113		0.0241
10/2/2019				0.117				0.0611	
3/30/2020								0.062	
3/31/2020		0.091							0.0264
4/1/2020				0.194		0.109			
8/31/2020									0.0275
9/1/2020	0.134			0.114	0.277	0.123	0.159	0.0795	
9/2/2020		0.0954	0.0733						
5/17/2021				0.125					
5/18/2021					0.255			0.0861	0.0259
5/19/2021		0.102	0.0743			0.147			
5/25/2021	0.184						0.104		
10/25/2021				0.0953	0.0928	0.12	0.0738		
10/26/2021	0.149		0.0589						
11/1/2021		0.0988						0.0731	0.0247
5/23/2022						0.127			
5/24/2022	0.156						0.0796	0.0863	0.0248
5/25/2022		0.0977	0.0569	0.126	0.698				

Time Series

Constituent: Barium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.0928	
10/1/2019	0.0913	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.119	
8/31/2020		
9/1/2020	0.11	0.115
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.111	0.107
5/25/2021		
10/25/2021		
10/26/2021	0.0936	
11/1/2021		0.0883
5/23/2022	0.0963	
5/24/2022		0.0906
5/25/2022		

Time Series

Constituent: Barium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								0.018	0.136
3/2/2016							0.0306		
4/19/2016							0.0292	0.0166	
4/20/2016									0.132
6/7/2016							0.0318	0.0271	0.141
8/30/2016								0.0312	0.136
8/31/2016							0.0324		
10/18/2016									0.125
10/19/2016							0.0313	0.0443	
1/31/2017							0.0306	0.0231	0.125
5/2/2017							0.0332	0.0241	
5/3/2017									0.146
6/6/2017							0.0275	0.0276	
6/7/2017									0.126
1/24/2018							0.0317	0.0293	0.127
5/1/2018							0.0356	0.0205	
5/2/2018									0.154
11/27/2018							0.0339	0.0321	0.139
11/28/2018									
1/8/2019				0.294					
5/29/2019							0.037	0.0203	0.146
7/31/2019	0.185	0.162							
10/1/2019	0.213	0.175					0.0356	0.0207	0.138
10/2/2019				0.229					
3/31/2020				0.243			0.0393	0.0193	0.15
4/1/2020		0.0629							
9/1/2020	0.234	0.182	0.00933 (J)				0.038	0.0131	0.154
9/2/2020				0.26	0.0204	0.0111			
5/17/2021			0.0094						
5/18/2021							0.0406	0.0225	
5/24/2021		0.208			0.0206	0.00981			
5/25/2021	0.261			0.26					
10/26/2021	0.202	0.188	0.00766	0.238					
11/1/2021							0.0371	0.0217	
11/2/2021					0.0203	0.00907			0.159
5/24/2022	0.215			0.245					
5/25/2022		0.174	0.00735		0.0197	0.00993	0.0494	0.0399	0.155

Time Series

Constituent: Barium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		0.0278
3/2/2016		
4/19/2016		0.0242
4/20/2016		
6/7/2016		0.0223
8/30/2016		0.0242
8/31/2016		
10/18/2016		
10/19/2016		0.024
1/31/2017		0.0248
5/2/2017		
5/3/2017		0.0268
6/6/2017		
6/7/2017		0.0256
1/24/2018		0.0254
5/1/2018		
5/2/2018		0.0276
11/27/2018		
11/28/2018		0.0231
1/8/2019	0.0372	
5/29/2019		0.0244
7/31/2019		
10/1/2019		0.0257
10/2/2019	0.0338	
3/31/2020	0.0313	0.0244
4/1/2020		
9/1/2020	0.0399	
9/2/2020		0.0282
5/17/2021		0.0305
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	0.0368	0.0286
5/24/2022		
5/25/2022	0.0574	0.0268

Time Series

Constituent: Barium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						0.117	0.111	0.0862	0.0973
3/1/2016	0.0519		0.142		0.114				
4/19/2016						0.099	0.0875	0.0718	0.0802
4/20/2016	0.0517		0.143		0.114				
6/6/2016						0.107			0.0862
6/7/2016	0.0577		0.145				0.0979	0.0754	
6/8/2016					0.128				
8/30/2016			0.147			0.106	0.108	0.0768	0.0841
8/31/2016	0.0614				0.123				
10/18/2016			0.14			0.102	0.103	0.0727	0.0715
10/19/2016	0.0618				0.118				
1/31/2017	0.0576		0.134			0.0944	0.109	0.0698	0.0825
2/1/2017					0.104				
5/2/2017						0.0868	0.125	0.0723	0.0777
5/3/2017	0.0601		0.145		0.126				
6/6/2017						0.0799	0.108	0.07	0.078
6/7/2017	0.054		0.128		0.111				
1/23/2018					0.115	0.0884	0.153	0.0747	0.0825
1/24/2018	0.0568		0.129						
5/1/2018							0.167	0.0877	0.102
5/2/2018	0.063		0.149		0.125	0.137			
11/26/2018									0.0994
11/27/2018			0.143			0.157	0.158	0.0804	
11/28/2018	0.0654				0.119				
1/9/2019		0.112		0.337					
5/28/2019									0.102
5/29/2019	0.059		0.138			0.166	0.172	0.0831	
5/30/2019					0.112				
9/30/2019	0.0648		0.138		0.117				
10/1/2019		0.0541		0.264					
10/2/2019						0.129	0.183	0.089	0.111
3/30/2020	0.059	0.0519	0.141	0.264					
3/31/2020					0.119	0.176	0.171	0.0927	0.129
9/2/2020	0.0745	0.0648	0.151	0.289	0.124				
9/8/2020									0.125
9/9/2020						0.124	0.172	0.0919	
5/11/2021			0.147				0.165	0.0981	0.125
5/12/2021						0.123			
5/18/2021	0.07	0.0805		0.299	0.125				
10/18/2021								0.0935	0.124
10/19/2021						0.103	0.145		
10/26/2021			0.136	0.282					
10/27/2021	0.0664	0.0684			0.117				
5/23/2022				0.277					
5/24/2022	0.0717	0.0803	0.142		0.117				
5/31/2022						0.1	0.153	0.0992	0.129

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.00102		<0.00102					
3/2/2016	<0.00102				<0.00102		<0.00102		<0.00102
4/19/2016	<0.00102								
4/20/2016		<0.00102		<0.00102	<0.00102		<0.00102		<0.00102
6/8/2016	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		<0.00102
8/30/2016									<0.00102
8/31/2016	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
10/18/2016									<0.00102
10/19/2016	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
1/31/2017	<0.00102						<0.00102		<0.00102
2/1/2017		<0.00102		<0.00102	<0.00102				
5/2/2017	<0.00102								<0.00102
5/3/2017		<0.00102		<0.00102	<0.00102		<0.00102		
6/6/2017	<0.00102								<0.00102
6/7/2017		<0.00102		<0.00102	<0.00102		0.00103 (J)		
1/22/2018							<0.00102		
1/23/2018		<0.00102		<0.00102	<0.00102				<0.00102
1/24/2018	<0.00102								
5/1/2018	<0.00102								
5/2/2018		<0.00102		<0.00102	<0.00102		<0.00102		<0.00102
11/27/2018									<0.00102
11/28/2018	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
1/8/2019			<0.00102			<0.00102			
5/29/2019	<0.00102			<0.00102	<0.00102		<0.00102		<0.00102
5/30/2019		<0.00102							
9/30/2019		<0.00102		<0.00102					
10/1/2019	<0.00102		<0.00102		<0.00102		<0.00102		<0.00102
10/2/2019						<0.00102			
3/30/2020	<0.00102								
3/31/2020		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
4/1/2020									
9/1/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
9/2/2020								<0.00102	<0.00102
5/11/2021		<0.00102							
5/18/2021	<0.00102		<0.00102		<0.00102	<0.00102			
5/19/2021				<0.00102			<0.00102	<0.00102	
5/25/2021									<0.00102
10/26/2021							<0.00102	<0.00102	
10/27/2021		<0.00102	<0.00102						<0.00102
11/1/2021	<0.00102				<0.00102	<0.00102			
11/2/2021				<0.00102					
5/23/2022				<0.00102	<0.00102	<0.00102			
5/24/2022	<0.00102	<0.00102	<0.00102				<0.00102		
5/25/2022								<0.00102	<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.00102
4/19/2016		<0.00102
4/20/2016		
6/8/2016		<0.00102
8/30/2016		
8/31/2016		<0.00102
10/18/2016		
10/19/2016		<0.00102
1/31/2017		<0.00102
2/1/2017		
5/2/2017		<0.00102
5/3/2017		
6/6/2017		<0.00102
6/7/2017		
1/22/2018		<0.00102
1/23/2018		
1/24/2018		
5/1/2018		<0.00102
5/2/2018		
11/27/2018		<0.00102
11/28/2018		
1/8/2019		
5/29/2019		<0.00102
5/30/2019		
9/30/2019		
10/1/2019		<0.00102
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.00102
9/1/2020		
9/2/2020	<0.00102	<0.00102
5/11/2021		<0.00102
5/18/2021		
5/19/2021		
5/25/2021	<0.00102	
10/26/2021	<0.00102	<0.00102
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.00102	
5/25/2022		<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.00102							<0.00102
4/19/2016		<0.00102							<0.00102
6/8/2016		<0.00102							<0.00102
8/31/2016		<0.00102							<0.00102
10/19/2016		<0.00102							<0.00102
1/31/2017		<0.00102							<0.00102
5/2/2017		<0.00102							<0.00102
6/6/2017		<0.00102							<0.00102
1/23/2018		<0.00102							<0.00102
1/24/2018									<0.00102
5/1/2018		<0.00102							<0.00102
11/27/2018		<0.00102							<0.00102
1/8/2019								<0.00102	
3/20/2019						<0.00102			
5/29/2019		<0.00102							<0.00102
7/31/2019	<0.00102			<0.00102			<0.00102		
10/1/2019	<0.00102	<0.00102				<0.00102	<0.00102		<0.00102
10/2/2019				<0.00102				<0.00102	
3/30/2020								<0.00102	
3/31/2020		<0.00102							<0.00102
4/1/2020				<0.00102		<0.00102			
8/31/2020									<0.00102
9/1/2020	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
9/2/2020		<0.00102	<0.00102						
5/17/2021				<0.00102					
5/18/2021					<0.00102			<0.00102	<0.00102
5/19/2021		<0.00102	<0.00102			<0.00102			
5/25/2021	<0.00102						<0.00102		
10/25/2021				<0.00102	<0.00102	<0.00102	<0.00102		
10/26/2021	<0.00102		<0.00102						
11/1/2021		<0.00102						<0.00102	<0.00102
5/23/2022						<0.00102			
5/24/2022	<0.00102						<0.00102	<0.00102	<0.00102
5/25/2022		<0.00102	<0.00102	<0.00102	<0.00102				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.00102	
10/1/2019	<0.00102	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.00102	
8/31/2020		
9/1/2020	<0.00102	<0.00102
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.00102	<0.00102
5/25/2021		
10/25/2021		
10/26/2021	<0.00102	
11/1/2021		<0.00102
5/23/2022	<0.00102	
5/24/2022		<0.00102
5/25/2022		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.00102	<0.00102
3/2/2016							<0.00102		
4/19/2016							<0.00102	<0.00102	
4/20/2016									<0.00102
6/7/2016							<0.00102	<0.00102	<0.00102
8/30/2016								<0.00102	<0.00102
8/31/2016							<0.00102		
10/18/2016									<0.00102
10/19/2016							<0.00102	<0.00102	
1/31/2017							<0.00102	<0.00102	<0.00102
5/2/2017							<0.00102	<0.00102	
5/3/2017									<0.00102
6/6/2017							<0.00102	<0.00102	
6/7/2017									<0.00102
1/24/2018							<0.00102	<0.00102	<0.00102
5/1/2018							<0.00102	<0.00102	
5/2/2018									<0.00102
11/27/2018							<0.00102	0.00071 (J)	<0.00102
11/28/2018									
1/8/2019				<0.00102					
5/29/2019							<0.00102	<0.00102	<0.00102
7/31/2019	<0.00102	<0.00102							
10/1/2019	<0.00102	<0.00102					<0.00102	<0.00102	<0.00102
10/2/2019				<0.00102					
3/31/2020				<0.00102			<0.00102	<0.00102	<0.00102
4/1/2020		<0.00102							
9/1/2020	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	<0.00102
9/2/2020				<0.00102	<0.00102	<0.00102			
5/17/2021			<0.00102						
5/18/2021							<0.00102	<0.00102	
5/24/2021		<0.00102			<0.00102	<0.00102			
5/25/2021	<0.00102			<0.00102					
10/26/2021	<0.00102	<0.00102	<0.00102	<0.00102					
11/1/2021							<0.00102	<0.00102	
11/2/2021					<0.00102	<0.00102			<0.00102
5/24/2022	<0.00102			<0.00102					
5/25/2022		<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	0.00065 (J)	<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.00102
3/2/2016		
4/19/2016		<0.00102
4/20/2016		
6/7/2016		<0.00102
8/30/2016		<0.00102
8/31/2016		
10/18/2016		
10/19/2016		<0.00102
1/31/2017		<0.00102
5/2/2017		
5/3/2017		<0.00102
6/6/2017		
6/7/2017		<0.00102
1/24/2018		<0.00102
5/1/2018		
5/2/2018		<0.00102
11/27/2018		
11/28/2018		<0.00102
1/8/2019	<0.00102	
5/29/2019		<0.00102
7/31/2019		
10/1/2019		<0.00102
10/2/2019	<0.00102	
3/31/2020	<0.00102	<0.00102
4/1/2020		
9/1/2020	<0.00102	
9/2/2020		<0.00102
5/17/2021		<0.00102
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.00102	<0.00102
5/24/2022		
5/25/2022	<0.00102	<0.00102

Time Series

Constituent: Beryllium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.00102	<0.00102	<0.00102	<0.00102
3/1/2016	<0.00102		<0.00102		<0.00102				
4/19/2016						<0.00102	<0.00102	<0.00102	<0.00102
4/20/2016	<0.00102		<0.00102		<0.00102				
6/6/2016						0.000612 (J)			<0.00102
6/7/2016	<0.00102		<0.00102				0.00093 (J)	<0.00102	
6/8/2016					<0.00102				
8/30/2016			<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
8/31/2016	<0.00102				<0.00102				
10/18/2016			<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
10/19/2016	<0.00102				<0.00102				
1/31/2017	<0.00102		<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
2/1/2017					<0.00102				
5/2/2017						0.00069 (J)	<0.00102	<0.00102	<0.00102
5/3/2017	<0.00102		<0.00102		<0.00102				
6/6/2017						<0.00102	<0.00102	<0.00102	<0.00102
6/7/2017	<0.00102		<0.00102		<0.00102				
1/23/2018					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
1/24/2018	<0.00102		<0.00102						
5/1/2018							<0.00102	<0.00102	<0.00102
5/2/2018	<0.00102		<0.00102		<0.00102	<0.00102			
11/26/2018									<0.00102
11/27/2018			<0.00102					<0.00102	
11/28/2018	<0.00102				<0.00102				
1/9/2019		<0.00102		<0.00102					
5/28/2019									<0.00102
5/29/2019	<0.00102		<0.00102			<0.00102	<0.00102	<0.00102	
5/30/2019					<0.00102				
9/30/2019	<0.00102		<0.00102		<0.00102				
10/1/2019		<0.00102		<0.00102					
10/2/2019						<0.00102	<0.00102	<0.00102	<0.00102
3/30/2020	<0.00102	<0.00102	<0.00102	<0.00102					
3/31/2020					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/2/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102				
9/8/2020									<0.00102
9/9/2020						<0.00102	<0.00102	<0.00102	
5/11/2021			<0.00102				<0.00102	<0.00102	<0.00102
5/12/2021						0.000694 (J)			
5/18/2021	<0.00102	<0.00102		<0.00102	<0.00102				
10/18/2021								<0.00102	<0.00102
10/19/2021						<0.00102	<0.00102		
10/26/2021			<0.00102	<0.00102					
10/27/2021	<0.00102	<0.00102			<0.00102				
5/23/2022				<0.00102					
5/24/2022	<0.00102	<0.00102	<0.00102		<0.00102				
5/31/2022						<0.00102	0.00041 (J)	<0.00102	<0.00102

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		1.39		0.0482 (J)					
3/2/2016	2.03				0.0502 (J)		0.0328 (J)		0.0395 (J)
4/19/2016	2.2								
4/20/2016		1.51		0.059 (J)	0.0672 (J)		0.0434 (J)		0.0549 (J)
6/8/2016	1.61	1.62		0.0568 (J)	0.0659 (J)		0.0391 (J)		0.0593 (J)
8/30/2016									0.0534 (J)
8/31/2016	1.55	1.73		0.0651 (J)	0.065 (J)		0.0401 (J)		
10/18/2016									0.0597 (J)
10/19/2016	1.59	1.77		0.06 (J)	0.0721 (J)		0.0427 (J)		
1/31/2017	1.84						0.034 (J)		0.0479 (J)
2/1/2017		1.42		0.0638 (J)	0.06 (J)				
5/2/2017	1.73								0.0587 (J)
5/3/2017		1.52		0.0655 (J)	0.0768 (J)		0.0416 (J)		
6/6/2017	1.56								0.0428 (J)
6/7/2017		1.52		0.0468 (J)	0.0625 (J)		0.0277 (J)		
9/13/2017	1.87			0.0751 (J)	0.0926 (J)		0.044 (J)		0.0647 (J)
9/14/2017		1.96							
5/1/2018	1.81								
5/2/2018		2		0.0545 (J)	0.064 (J)		0.0393 (J)		0.0484 (J)
11/27/2018									0.0493 (J)
11/28/2018	1.8	2		0.0545 (J)	0.064 (J)		0.0417 (J)		
1/8/2019			0.677			0.0939 (J)			
5/29/2019	1.75			0.082 (J)	0.0952 (J)		0.0528 (J)		0.0682 (J)
5/30/2019		2.11							
9/30/2019		2.02		0.103					
10/1/2019	1.91		1.02		0.0967 (J)		0.0604 (J)		0.0701 (J)
10/2/2019						0.134			
3/30/2020	1.77								
3/31/2020		2.12	1.04	0.0815 (J)	0.0856 (J)	0.101	0.0505 (J)		0.0655 (J)
4/1/2020									
9/1/2020	2.11	2.02	1.06	0.104	0.115	0.149	0.0642 (J)		
9/2/2020								0.112	0.0789 (J)
5/11/2021		1.99							
5/18/2021	1.99		0.971		0.0927 (J)	0.118			
5/19/2021				0.0856 (J)			0.0604 (J)	0.0976 (J)	
5/25/2021									0.074 (J)
10/26/2021							0.0511 (J)	0.0888 (J)	
10/27/2021		2.39	0.933						0.0677 (J)
11/1/2021	2.02				0.0769 (J)	0.0962 (J)			
11/2/2021				0.0691 (J)					
5/23/2022				0.0558 (J)	0.0626 (J)	0.0765 (J)			
5/24/2022	2.08	2.34	0.938				0.0457 (J)		
5/25/2022								0.0852 (J)	0.0618 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.0447 (J)
4/19/2016		0.0645 (J)
4/20/2016		
6/8/2016		0.0592 (J)
8/30/2016		
8/31/2016		0.0632 (J)
10/18/2016		
10/19/2016		0.0637 (J)
1/31/2017		0.0536 (J)
2/1/2017		
5/2/2017		0.0775 (J)
5/3/2017		
6/6/2017		0.0535 (J)
6/7/2017		
9/13/2017		0.0937 (J)
9/14/2017		
5/1/2018		0.0683 (J)
5/2/2018		
11/27/2018		0.0715 (J)
11/28/2018		
1/8/2019		
5/29/2019		0.116
5/30/2019		
9/30/2019		
10/1/2019		0.116
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.1
9/1/2020		
9/2/2020	0.407	0.148
5/11/2021		0.109
5/18/2021		
5/19/2021		
5/25/2021	0.43	
10/26/2021	0.393	0.0953 (J)
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.376	
5/25/2022		0.0826 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		1.47							<0.1015
4/19/2016		1.53							<0.1015
6/8/2016		1.7							<0.1015
8/31/2016		1.68							<0.1015
10/19/2016		1.53							<0.1015
1/31/2017		1.51							<0.1015
5/2/2017		1.64							<0.1015
6/6/2017		1.57							<0.1015
9/12/2017									<0.1015
9/13/2017		2.18							
5/1/2018		1.57							<0.1015
11/27/2018		1.58							<0.1015
1/8/2019								0.0205 (J)	
3/20/2019						0.924			
5/29/2019		1.7							<0.1015
7/31/2019	0.0439 (J)			0.0782 (J)			0.835		
10/1/2019	0.0824 (J)	2.05				1.05	0.931		<0.1015
10/2/2019				0.129				<0.1015	
3/30/2020								0.0347 (J)	
3/31/2020		1.74							<0.1015
4/1/2020				0.073 (J)		0.435			
8/31/2020									<0.1015
9/1/2020	0.0907 (J)			0.146	0.124	0.855	0.895	0.0368 (J)	
9/2/2020		1.9	<0.1015						
5/17/2021				0.0911 (J)					
5/18/2021					0.124			0.0334 (J)	<0.1015
5/19/2021		1.74	<0.1015			0.866			
5/25/2021	0.0617 (J)						0.252		
10/25/2021				0.0887 (J)	0.113	0.934	0.142		
10/26/2021	0.0498 (J)		<0.1015						
11/1/2021		2.18						<0.1015	<0.1015
5/23/2022						0.91			
5/24/2022	0.0376 (J)						0.159	0.0333 (J)	<0.1015
5/25/2022		1.98	<0.1015	0.0597 (J)	0.177				

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.0707 (J)	
10/1/2019	0.101	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.046 (J)	
8/31/2020		
9/1/2020	0.106	0.134
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.0909 (J)	0.119
5/25/2021		
10/25/2021		
10/26/2021	0.0784 (J)	
11/1/2021		0.11
5/23/2022	0.0653 (J)	
5/24/2022		0.0977 (J)
5/25/2022		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.1015	0.0462 (J)
3/2/2016							<0.1015		
4/19/2016							<0.1015	<0.1015	
4/20/2016									0.0719 (J)
6/7/2016							<0.1015	<0.1015	0.0591 (J)
8/30/2016								<0.1015	0.0675 (J)
8/31/2016							<0.1015		
10/18/2016									0.0699 (J)
10/19/2016							<0.1015	<0.1015	
1/31/2017							<0.1015	<0.1015	0.0518 (J)
5/2/2017							<0.1015	<0.1015	
5/3/2017									0.0737 (J)
6/6/2017							<0.1015	<0.1015	
6/7/2017									0.0518 (J)
9/12/2017							<0.1015	<0.1015	
9/14/2017									0.0825 (J)
5/1/2018							<0.1015	<0.1015	
5/2/2018									0.0603 (J)
11/27/2018							<0.1015	<0.1015	0.0613 (J)
11/28/2018									
1/8/2019				0.213					
5/29/2019							<0.1015	<0.1015	0.0946 (J)
7/31/2019	0.0643 (J)	0.0531 (J)							
10/1/2019	0.105	0.0856 (J)					<0.1015	<0.1015	0.103
10/2/2019				0.344					
3/31/2020				0.325			<0.1015	<0.1015	0.0782 (J)
4/1/2020		<0.1015							
9/1/2020	0.115	0.0943 (J)	0.307				<0.1015	<0.1015	0.115
9/2/2020				0.382	<0.1015	<0.1015			
5/17/2021			0.32						
5/18/2021							<0.1015	<0.1015	
5/24/2021		0.0785 (J)			<0.1015	<0.1015			
5/25/2021	0.0889 (J)			0.37					
10/26/2021	0.0725 (J)	0.0709 (J)	0.306	0.354					
11/1/2021							<0.1015	<0.1015	
11/2/2021					<0.1015	<0.1015			0.0755 (J)
5/24/2022	0.0562 (J)			0.351					
5/25/2022		0.0526 (J)	0.307		<0.1015	<0.1015	<0.1015	<0.1015	0.063 (J)

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.1015
3/2/2016		
4/19/2016		<0.1015
4/20/2016		
6/7/2016		<0.1015
8/30/2016		<0.1015
8/31/2016		
10/18/2016		
10/19/2016		<0.1015
1/31/2017		<0.1015
5/2/2017		
5/3/2017		<0.1015
6/6/2017		
6/7/2017		<0.1015
9/12/2017		
9/14/2017		<0.1015
5/1/2018		
5/2/2018		<0.1015
11/27/2018		
11/28/2018		<0.1015
1/8/2019	0.029 (J)	
5/29/2019		<0.1015
7/31/2019		
10/1/2019		<0.1015
10/2/2019	0.0336 (J)	
3/31/2020	0.0339 (J)	<0.1015
4/1/2020		
9/1/2020	0.0414 (J)	
9/2/2020		<0.1015
5/17/2021		<0.1015
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.1015	<0.1015
5/24/2022		
5/25/2022	<0.1015	<0.1015

Time Series

Constituent: Boron, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						0.0212 (J)	0.0252 (J)	<0.1015	0.0257 (J)
3/1/2016	0.0546 (J)		1.72		1.79				
4/19/2016						<0.1015	<0.1015	<0.1015	<0.1015
4/20/2016	0.0472 (J)		1.7		2.01				
6/6/2016						<0.1015			<0.1015
6/7/2016	0.0417 (J)		1.57				0.0202 (J)	<0.1015	
6/8/2016					2.23				
8/30/2016			1.67			<0.1015	<0.1015	<0.1015	<0.1015
8/31/2016	0.036 (J)				2.14				
10/18/2016			1.4			<0.1015	<0.1015	<0.1015	0.022 (J)
10/19/2016	0.0386 (J)				2.13				
1/31/2017	0.0343 (J)		1.46			<0.1015	<0.1015	<0.1015	<0.1015
2/1/2017					2.17				
5/2/2017						<0.1015	<0.1015	<0.1015	<0.1015
5/3/2017	0.037 (J)		1.45		2.28				
6/6/2017						<0.1015	<0.1015	<0.1015	<0.1015
6/7/2017	0.0227 (J)		1.41		2.25				
9/12/2017									<0.1015
9/13/2017						<0.1015	<0.1015	<0.1015	
9/14/2017	0.0471 (J)		1.16		2.41				
5/1/2018							<0.1015	<0.1015	<0.1015
5/2/2018	0.0313 (J)		1.12		2.34	0.0362 (J)			
11/26/2018									<0.1015
11/27/2018			1.31			0.11		<0.1015	
11/28/2018	0.0311 (J)				2.23				
1/9/2019		0.0615 (J)		0.164					
5/28/2019									<0.1015
5/29/2019	0.042 (J)		1.44			0.188	<0.1015	<0.1015	
5/30/2019					2.45				
9/30/2019	0.0418 (J)		1.38		2.34				
10/1/2019		0.0546 (J)		0.241					
10/2/2019						0.097 (J)	<0.1015	<0.1015	<0.1015
3/30/2020	0.0369 (J)	0.0555 (J)	1.12	0.247					
3/31/2020					2.27	0.157	<0.1015	<0.1015	<0.1015
9/2/2020	0.042 (J)	0.0565 (J)	1.26	0.26	2.05				
9/8/2020									<0.1015
9/9/2020						0.0999 (J)	<0.1015	<0.1015	
5/11/2021			0.971				<0.1015	<0.1015	<0.1015
5/12/2021						0.0841 (J)			
5/18/2021	0.037 (J)	0.0599 (J)		0.247	2.08				
10/18/2021								<0.1015	<0.1015
10/19/2021						0.0708 (J)	<0.1015		
10/26/2021			0.933	0.216					
10/27/2021	0.0427 (J)	0.0546 (J)			2.04				
5/23/2022				0.259					
5/24/2022	0.0369 (J)	0.165	1.12		2.01				
5/31/2022						0.0567 (J)	<0.1015	<0.1015	<0.1015

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.0002		<0.0002					
3/2/2016	<0.0002				<0.0002		<0.0002		<0.0002
4/19/2016	<0.0002								
4/20/2016		<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
6/8/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
8/30/2016									<0.0002
8/31/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
10/18/2016									<0.0002
10/19/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
1/31/2017	<0.0002						<0.0002		<0.0002
2/1/2017		<0.0002		<0.0002	<0.0002				
5/2/2017	<0.0002								<0.0002
5/3/2017		<0.0002		<0.0002	<0.0002		<0.0002		
6/6/2017	<0.0002								<0.0002
6/7/2017		<0.0002		<0.0002	<0.0002		0.00077 (J)		
1/22/2018							<0.0002		
1/23/2018		<0.0002		<0.0002	<0.0002				<0.0002
1/24/2018	<0.0002								
5/1/2018	<0.0002								
5/2/2018		<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
11/27/2018									<0.0002
11/28/2018	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
1/8/2019			<0.0002			<0.0002			
5/29/2019	<0.0002			<0.0002	<0.0002		<0.0002		<0.0002
5/30/2019		<0.0002							
9/30/2019		<0.0002		<0.0002					
10/1/2019	<0.0002		<0.0002		<0.0002		<0.0002		<0.0002
10/2/2019						<0.0002			
3/30/2020	<0.0002								
3/31/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
4/1/2020									
9/1/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/2/2020								<0.0002	<0.0002
5/11/2021		<0.0002							
5/18/2021	<0.0002		<0.0002		<0.0002	<0.0002			
5/19/2021				<0.0002			<0.0002	<0.0002	
5/25/2021									<0.0002
10/26/2021							<0.0002	<0.0002	
10/27/2021		<0.0002	<0.0002						<0.0002
11/1/2021	<0.0002				<0.0002	<0.0002			
11/2/2021				<0.0002					
5/23/2022				<0.0002	<0.0002	<0.0002			
5/24/2022	<0.0002	<0.0002	<0.0002				<0.0002		
5/25/2022								<0.0002	<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.0002
4/19/2016		<0.0002
4/20/2016		
6/8/2016		<0.0002
8/30/2016		
8/31/2016		<0.0002
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
2/1/2017		
5/2/2017		<0.0002
5/3/2017		
6/6/2017		<0.0002
6/7/2017		
1/22/2018		<0.0002
1/23/2018		
1/24/2018		
5/1/2018		<0.0002
5/2/2018		
11/27/2018		<0.0002
11/28/2018		
1/8/2019		
5/29/2019		<0.0002
5/30/2019		
9/30/2019		
10/1/2019		<0.0002
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.0002
9/1/2020		
9/2/2020	<0.0002	<0.0002
5/11/2021		<0.0002
5/18/2021		
5/19/2021		
5/25/2021	<0.0002	
10/26/2021	<0.0002	<0.0002
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.0002	
5/25/2022		<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.0002							<0.0002
4/19/2016		<0.0002							<0.0002
6/8/2016		<0.0002							<0.0002
8/31/2016		<0.0002							<0.0002
10/19/2016		<0.0002							<0.0002
1/31/2017		<0.0002							<0.0002
5/2/2017		<0.0002							<0.0002
6/6/2017		<0.0002							<0.0002
1/23/2018		<0.0002							<0.0002
1/24/2018									<0.0002
5/1/2018		<0.0002							<0.0002
11/27/2018		<0.0002							<0.0002
1/8/2019								<0.0002	
3/20/2019						<0.0002			
5/29/2019		<0.0002							<0.0002
7/31/2019	<0.0002			<0.0002			<0.0002		
10/1/2019	<0.0002	<0.0002				<0.0002	<0.0002		<0.0002
10/2/2019				<0.0002				<0.0002	
3/30/2020								<0.0002	
3/31/2020		<0.0002							<0.0002
4/1/2020				<0.0002		<0.0002			
8/31/2020									<0.0002
9/1/2020	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/2/2020		<0.0002	<0.0002						
5/17/2021				<0.0002					
5/18/2021					<0.0002			<0.0002	<0.0002
5/19/2021		<0.0002	<0.0002			<0.0002			
5/25/2021	<0.0002						<0.0002		
10/25/2021				<0.0002	<0.0002	<0.0002	<0.0002		
10/26/2021	<0.0002		<0.0002						
11/1/2021		<0.0002						<0.0002	<0.0002
5/23/2022						<0.0002			
5/24/2022	0.00018 (J)						<0.0002	<0.0002	<0.0002
5/25/2022		<0.0002	<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.0002	
10/1/2019	<0.0002	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.0002	
8/31/2020		
9/1/2020	<0.0002	<0.0002
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.0002	<0.0002
5/25/2021		
10/25/2021		
10/26/2021	<0.0002	
11/1/2021		<0.0002
5/23/2022	<0.0002	
5/24/2022		<0.0002
5/25/2022		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.0002	<0.0002
3/2/2016							<0.0002		
4/19/2016							<0.0002	<0.0002	
4/20/2016									<0.0002
6/7/2016							<0.0002	<0.0002	<0.0002
8/30/2016								<0.0002	<0.0002
8/31/2016							<0.0002		
10/18/2016									<0.0002
10/19/2016							<0.0002	<0.0002	
1/31/2017							<0.0002	<0.0002	<0.0002
5/2/2017							<0.0002	<0.0002	
5/3/2017									<0.0002
6/6/2017							<0.0002	<0.0002	
6/7/2017									<0.0002
1/24/2018							<0.0002	<0.0002	<0.0002
5/1/2018							<0.0002	<0.0002	
5/2/2018									<0.0002
11/27/2018							<0.0002	<0.0002	<0.0002
11/28/2018									
1/8/2019				<0.0002					
5/29/2019							<0.0002	<0.0002	<0.0002
7/31/2019	<0.0002	<0.0002							
10/1/2019	<0.0002	<0.0002					<0.0002	<0.0002	<0.0002
10/2/2019				<0.0002					
3/31/2020				<0.0002			<0.0002	<0.0002	<0.0002
4/1/2020		<0.0002							
9/1/2020	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002
9/2/2020				<0.0002	<0.0002	<0.0002			
5/17/2021			<0.0002						
5/18/2021							<0.0002	<0.0002	
5/24/2021		<0.0002			<0.0002	<0.0002			
5/25/2021	<0.0002			<0.0002					
10/26/2021	<0.0002	<0.0002	<0.0002	<0.0002					
11/1/2021							<0.0002	<0.0002	
11/2/2021					<0.0002	<0.0002			<0.0002
5/24/2022	<0.0002			<0.0002					
5/25/2022		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.0002
3/2/2016		
4/19/2016		<0.0002
4/20/2016		
6/7/2016		<0.0002
8/30/2016		<0.0002
8/31/2016		
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
5/2/2017		
5/3/2017		<0.0002
6/6/2017		
6/7/2017		<0.0002
1/24/2018		<0.0002
5/1/2018		
5/2/2018		<0.0002
11/27/2018		
11/28/2018		<0.0002
1/8/2019	<0.0002	
5/29/2019		<0.0002
7/31/2019		
10/1/2019		<0.0002
10/2/2019	<0.0002	
3/31/2020	<0.0002	<0.0002
4/1/2020		
9/1/2020	<0.0002	
9/2/2020		<0.0002
5/17/2021		<0.0002
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.0002	7E-05 (J)
5/24/2022		
5/25/2022	<0.0002	0.00031

Time Series

Constituent: Cadmium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.0002	<0.0002	<0.0002	<0.0002
3/1/2016	<0.0002		<0.0002		<0.0002				
4/19/2016						<0.0002	<0.0002	<0.0002	<0.0002
4/20/2016	<0.0002		<0.0002		<0.0002				
6/6/2016						<0.0002			<0.0002
6/7/2016	<0.0002		<0.0002				<0.0002	<0.0002	
6/8/2016					<0.0002				
8/30/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
8/31/2016	<0.0002				<0.0002				
10/18/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
10/19/2016	<0.0002				<0.0002				
1/31/2017	<0.0002		<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/1/2017					<0.0002				
5/2/2017						<0.0002	<0.0002	<0.0002	<0.0002
5/3/2017	<0.0002		<0.0002		<0.0002				
6/6/2017						<0.0002	<0.0002	<0.0002	<0.0002
6/7/2017	<0.0002		<0.0002		<0.0002				
1/23/2018					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2018	<0.0002		<0.0002						
5/1/2018							<0.0002	<0.0002	<0.0002
5/2/2018	<0.0002		<0.0002		<0.0002	<0.0002			
11/26/2018									<0.0002
11/27/2018			<0.0002			<0.0002	<0.0002	<0.0002	
11/28/2018	<0.0002				<0.0002				
1/9/2019		<0.0002		<0.0002					
5/28/2019									<0.0002
5/29/2019	<0.0002		<0.0002			<0.0002	<0.0002	<0.0002	
5/30/2019					<0.0002				
9/30/2019	<0.0002		<0.0002		<0.0002				
10/1/2019		<0.0002		<0.0002					
10/2/2019						<0.0002	<0.0002	<0.0002	<0.0002
3/30/2020	<0.0002	<0.0002	<0.0002	<0.0002					
3/31/2020					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/2/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
9/8/2020									<0.0002
9/9/2020						<0.0002	<0.0002	<0.0002	
5/11/2021			<0.0002				<0.0002	<0.0002	<0.0002
5/12/2021						<0.0002			
5/18/2021	<0.0002	<0.0002		<0.0002	<0.0002				
10/18/2021								7E-05 (J)	<0.0002
10/19/2021						<0.0002	<0.0002		
10/26/2021			<0.0002	<0.0002					
10/27/2021	<0.0002	<0.0002			<0.0002				
5/23/2022				<0.0002					
5/24/2022	<0.0002	<0.0002	<0.0002		<0.0002				
5/31/2022						<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		50.6		35.3					
3/2/2016	46.5				21		16.7		9.53
4/19/2016	49								
4/20/2016		49.1		28.9	20.1		13.1		9.55
6/8/2016	33.5	48.7		27.6	20.2		11.7		13.1
8/30/2016									12.1
8/31/2016	34.2	57.9		25.4	19.9		11.3		
10/18/2016									11.4
10/19/2016	35.1	52.2		25.7	20.4		11.8		
1/31/2017	38.5						12.5		10.8
2/1/2017		47.6		25.6	20.9				
5/2/2017	35.1								11.9
5/3/2017		51.3		24	20.9		12		
6/6/2017	32.4								12.2
6/7/2017		51.4		25.2	21.2		12.8		
9/13/2017	40.5			25.5	22.1		13.3		13.9
9/14/2017		54.9							
5/1/2018	39.7								
5/2/2018		53.3		25.2	22.2		13.8		10.6
8/28/2018	37.2	56.4							
8/29/2018				25.6	22.3		13.3		11.7
11/27/2018									10.8
11/28/2018	35.8	54.2		24.6	22.1		15.2		
1/8/2019			57.2			33.8			
5/29/2019	33.4			23.9	21.4		12.8		11.2
5/30/2019		60.5							
9/30/2019		63.1		24.6					
10/1/2019	36.7		61.2		23.1		13.4		11.4
10/2/2019						22.2			
3/30/2020	33.7								
3/31/2020		63.6	66.6	25.1	22.4	21.3	13.2		9.04
4/1/2020									
9/1/2020	40.5	57.2	57.3	23.9	22.2	21	12.3		
9/2/2020								12.3	10.8
5/11/2021		62.7							
5/18/2021	39.5		64		23.1	22.1			
5/19/2021				41.5			12.9	12.7	
5/25/2021									11.2
10/26/2021							12.3	11.3	
10/27/2021		64.2	61.6						11.4
11/1/2021	38.4				21.8	21.4			
11/2/2021				25.8					
5/23/2022				26	20.6	20.6			
5/24/2022	43.9	63.9	65				19.2		
5/25/2022								12	11.4

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		6.61
4/19/2016		5.97
4/20/2016		
6/8/2016		6.36
8/30/2016		
8/31/2016		6.28
10/18/2016		
10/19/2016		6.57
1/31/2017		6.77
2/1/2017		
5/2/2017		6.94
5/3/2017		
6/6/2017		6.88
6/7/2017		
9/13/2017		7.43
9/14/2017		
5/1/2018		7.42
5/2/2018		
8/28/2018		
8/29/2018		7.37
11/27/2018		7.58
11/28/2018		
1/8/2019		
5/29/2019		7.22
5/30/2019		
9/30/2019		
10/1/2019		6.9
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		7.32
9/1/2020		
9/2/2020	4.7	7.04
5/11/2021		6.98
5/18/2021		
5/19/2021		
5/25/2021	4.66	
10/26/2021	5.28	6.46
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	7.03	
5/25/2022		6.41

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		14.6							3.86
4/19/2016		13.3							3.22
6/8/2016		13.2							3.17
8/31/2016		11.8							3.07
10/19/2016		12.9							2.91
1/31/2017		13.5							2.94
5/2/2017		13.5							2.82
6/6/2017		13.6							2.79
9/12/2017									2.88
9/13/2017		11.8							
5/1/2018		14							2.82
8/28/2018									2.85
8/29/2018		12.1							
11/27/2018		13.3							2.8
1/8/2019								15.7	
3/20/2019						28.4			
5/29/2019		13.4							2.82
7/31/2019	9.32			19.1			31.4		
10/1/2019	8.41	11.7				27.2	31.1		2.94
10/2/2019				13.2				3.16	
3/30/2020								3.23	
3/31/2020		14.2							2.95
4/1/2020				27		23.1			
8/31/2020									3
9/1/2020	6.9			10.8	20.5	25.6	31.6	3.43	
9/2/2020		13.1	2.02						
5/17/2021				12.8					
5/18/2021					15			3.79	3.17
5/19/2021		14.2	2.26			27.1			
5/25/2021	8.47						23.9		
10/25/2021				10.5	6.58	26.9	18.3		
10/26/2021	8.16		1.96						
11/1/2021		13.4						3.68	3.13
5/23/2022						25.5			
5/24/2022	8.1						18.6	3.55	2.45
5/25/2022		13.9	1.8	11.6	49.6				

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	30.3	
10/1/2019	29.4	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	26	
8/31/2020		
9/1/2020	28.8	14.7
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	30.9	15.3
5/25/2021		
10/25/2021		
10/26/2021	30.2	
11/1/2021		15.1
5/23/2022	28.6	
5/24/2022		14.4
5/25/2022		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								1.07	15
3/2/2016							1.11		
4/19/2016							1.01	0.969	
4/20/2016									14.3
6/7/2016							1.06	1.08	14.8
8/30/2016								0.952	13.7
8/31/2016							0.978		
10/18/2016									13.3
10/19/2016							0.906	1.17	
1/31/2017							1.04	0.946	13.7
5/2/2017							0.969	0.826	
5/3/2017									14.3
6/6/2017							0.902	0.834	
6/7/2017									14.7
9/12/2017							0.988	0.884	
9/14/2017									15.1
5/1/2018							1.07	0.921	
5/2/2018									14.5
8/28/2018							1.02	0.8	
8/29/2018									14.3
11/27/2018							0.999	1.01	13.7
11/28/2018									
1/8/2019				38					
5/29/2019							1.09	0.627	14.5
7/31/2019	15	25.8							
10/1/2019	15.5	27.2					1.08	0.645	13.8
10/2/2019				18.4					
3/31/2020				18.1			1.1	0.898	14.4
4/1/2020		15.8							
9/1/2020	14.8	35.8	1.27				1.08	0.566	13.6
9/2/2020				17.6	0.875	0.547			
5/17/2021			1.33						
5/18/2021							1.12	0.974	
5/24/2021		27.1			0.905	0.554			
5/25/2021	15.2			18.6					
10/26/2021	15.1	29.4	0.837	18.4					
11/1/2021							1.09	0.816	
11/2/2021					1.05	0.567			16.2
5/24/2022	14.4			17.9					
5/25/2022		24.5	0.899		0.949	0.573	1.29	1.69	14.6

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		1.87
3/2/2016		
4/19/2016		1.69
4/20/2016		
6/7/2016		1.75
8/30/2016		1.77
8/31/2016		
10/18/2016		
10/19/2016		1.8
1/31/2017		1.98
5/2/2017		
5/3/2017		1.97
6/6/2017		
6/7/2017		1.98
9/12/2017		
9/14/2017		2.14
5/1/2018		
5/2/2018		2.13
8/28/2018		
8/29/2018		1.92
11/27/2018		
11/28/2018		1.91
1/8/2019	3.7	
5/29/2019		1.72
7/31/2019		
10/1/2019		1.92
10/2/2019	2.43	
3/31/2020	1.88	1.68
4/1/2020		
9/1/2020	2.13	
9/2/2020		1.8
5/17/2021		1.93
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	2.11	1.97
5/24/2022		
5/25/2022	2.62	1.62

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						1.28	1.11	1.77	1.42
3/1/2016	7.65		36.1		40.3				
4/19/2016						1.19	1.09	1.68	1.31
4/20/2016	7.54		34.5		38.2				
6/6/2016						1.19			1.35
6/7/2016	7.71		34.7				1.16	1.68	
6/8/2016					39.2				
8/30/2016			34.1			1.11	1.08	1.62	1.31
8/31/2016	8.1				38.2				
10/18/2016			33.2			1.04	1.03	1.53	1.22
10/19/2016	8.59				38.7				
1/31/2017	8.78		32.3			1.19	1.23	1.65	1.36
2/1/2017					39.2				
5/2/2017						1.05	1.28	1.58	1.24
5/3/2017	8.85		34.1		39.1				
6/6/2017						0.978	1.25	1.55	1.28
6/7/2017	8.99		34.7		40.3				
9/12/2017									1.47
9/13/2017						1.14	1.6	1.71	
9/14/2017	9.64		34.4		40.7				
5/1/2018							1.58	1.76	1.47
5/2/2018	9.14		32.3		40	1.64			
8/28/2018					40				
8/29/2018			32.6						
11/26/2018									1.52
11/27/2018			32.5			2.01	1.49	1.69	
11/28/2018	9.66				39.7				
1/9/2019		37		27.2					
5/28/2019									1.6
5/29/2019	8.88		31.9			1.85	1.59	1.74	
5/30/2019					38.5				
9/30/2019	9.8		33		39.9				
10/1/2019		18.7		24.2					
10/2/2019						1.55	1.7	1.86	1.7
3/30/2020	10.1	20	32.2	24.5					
3/31/2020					40.1	1.96	1.43	1.92	1.78
9/2/2020	10.4	13.9	31.5	23.3	38				
9/8/2020									1.94
9/9/2020						1.43	1.5	1.97	
5/11/2021			33				1.39	2.06	1.93
5/12/2021						1.34			
5/18/2021	10.2	14.1		26.4	40.5				
10/18/2021								2.1	2.01
10/19/2021						1.17	1.32		
10/26/2021			33.5	25.7					
10/27/2021	10	17.2			40.3				
5/23/2022				24.4					
5/24/2022	10.5	8.84	31.5		38.3				
5/31/2022						1.14	1.24	1.95	2.02

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		19.6		21.7					
3/2/2016	2.18 (O)				22.2		47.3		36.6
4/19/2016	9.01 (O)								
4/20/2016		18.8		20.7	21.7		40.5		35.5
6/8/2016	21	18.6		20.4	22		37.2		43.8
8/30/2016									41.6
8/31/2016	21	18.5		20.3	22.3		38.2		
10/18/2016									39.5
10/19/2016	21.4	18.7		20.3	20.8		39.4		
3/21/2017	25								
3/22/2017		21		27	23		49		46
5/2/2017	26								42
5/3/2017		22		27	25		48		
6/6/2017	27								44
6/7/2017		22		24	23		49		
9/13/2017	24			26	23		42		43
9/14/2017		22							
5/1/2018	25								
5/2/2018		23		23	21		47		39
8/28/2018	25	25							
8/29/2018				25	23		43		44
11/27/2018									43
11/28/2018	26	25		25	23		43		
1/8/2019			21.3			23.1			
5/29/2019	27.6			27.8	24.1		44		50.1
5/30/2019		25.9							
9/30/2019		25.7		25					
10/1/2019	24.6		20		26.1		39.6		44.8
10/2/2019						28			
3/30/2020	24.9								
3/31/2020		26.1	20.7	24.1	23.9	25	44.9		44.7
4/1/2020									
9/1/2020	25.7	25	22.9	23.2	23.4	26.4	39.1		
9/2/2020								51.7	47.2
5/11/2021		27.3							
5/18/2021	25.1		21		25.4	25.5			
5/19/2021				23.1			46.8	64.4	
5/25/2021									52.1
10/26/2021							38.4	47.7	
10/27/2021		27.2	21						42.9
11/1/2021	26.2				27.4	26.1			
11/2/2021				25.1					
5/23/2022				25.1	26.2	25.6			
5/24/2022	28.7	27.7	19.4				43.5		
5/25/2022								59.3	45.3

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		20.9
4/19/2016		19.8
4/20/2016		
6/8/2016		24
8/30/2016		
8/31/2016		28
10/18/2016		
10/19/2016		21.3
3/21/2017		34
3/22/2017		
5/2/2017		33
5/3/2017		
6/6/2017		35
6/7/2017		
9/13/2017		36
9/14/2017		
5/1/2018		42
5/2/2018		
8/28/2018		
8/29/2018		38
11/27/2018		43
11/28/2018		
1/8/2019		
5/29/2019		47.2
5/30/2019		
9/30/2019		
10/1/2019		56.3
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		54.7
9/1/2020		
9/2/2020	178	47
5/11/2021		80
5/18/2021		
5/19/2021		
5/25/2021	210	
10/26/2021	191	85.4
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	184	
5/25/2022		80.7

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		16.6							6.08
4/19/2016		15.7							6.2
6/8/2016		15.1							6.2
8/31/2016		15.9							6.51
10/19/2016		15.3							6.85
3/21/2017		19							7.2
5/2/2017		19							8.3
6/6/2017		19							8.5
9/12/2017									8.6
9/13/2017		21							
5/1/2018		18							7.6
8/28/2018									8.5
8/29/2018		20							
11/27/2018		20							8.8
1/8/2019							42		
3/20/2019						17.6			
5/29/2019		20							8.31
7/31/2019	157			18			16.4		
10/1/2019	195	20.3				20.1	16.8		8.19
10/2/2019				17.7				60.7	
3/30/2020								69.1	
3/31/2020		20.8							8.48
4/1/2020				17.2		12.2			
8/31/2020									8.3
9/1/2020	170			18.2	273	19.8	17.6	69	
9/2/2020		20.8	75.6						
5/17/2021				17.1					
5/18/2021					225			79.5	7.89
5/19/2021		21.4	81.2			19.3			
5/25/2021	180						10.7		
10/25/2021				18.4	111	20.5	10.1		
10/26/2021	196		68.3						
11/1/2021		22.3						79.4	8.16
5/23/2022						18.9			
5/24/2022	212						10.4	95.1	9.21
5/25/2022		20	56.6	16	649				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
3/21/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	33.4	
10/1/2019	44.7	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	23.1	
8/31/2020		
9/1/2020	34.6	27.1
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	36.2	32.4
5/25/2021		
10/25/2021		
10/26/2021	34	
11/1/2021		29.6
5/23/2022	44.1	
5/24/2022		35.4
5/25/2022		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								7.74	19.7
3/2/2016							8.04		
4/19/2016							7.6	7.66	
4/20/2016									18.9
6/7/2016							7.7	11.3	18.5
8/30/2016								10.8	17.9
8/31/2016							7.7		
10/18/2016									18.2
10/19/2016							7.73	11.1	
3/21/2017							7.2	11	
3/22/2017									22
5/2/2017							8.6	12	
5/3/2017									22
6/6/2017							8.3	12	
6/7/2017									21
9/12/2017							8.5	11	
9/14/2017									21
5/1/2018							7.6	9.2	
5/2/2018									20
8/28/2018							8.2	10	
8/29/2018									21
11/27/2018							8.4	10	21
11/28/2018									
1/8/2019				44.6					
5/29/2019							9.01	8.53	19.7
7/31/2019	60.3	8.03							
10/1/2019	70	6.7					8.05	7.35	19.8
10/2/2019				53					
3/31/2020				47.5			9.07	9.54	19.8
4/1/2020		4.46							
9/1/2020	59.9	6.96	117				8.97	7.82	19.1
9/2/2020				43.7	4.62	3.85			
5/17/2021			134						
5/18/2021							9.52	9.53	
5/24/2021		6.33			4.72	3.48			
5/25/2021	65.4			46					
10/26/2021	54.5	5.64	124	41.6					
11/1/2021							9.76	7.99	
11/2/2021					5.07	3.42			21
5/24/2022	57.1			45.7					
5/25/2022		6.63	106		5.32	3.22	15.2	16.1	20

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		5.77
3/2/2016		
4/19/2016		5.57
4/20/2016		
6/7/2016		5.52
8/30/2016		5.5
8/31/2016		
10/18/2016		
10/19/2016		5.55
3/21/2017		
3/22/2017		6
5/2/2017		
5/3/2017		6.4
6/6/2017		
6/7/2017		5.9
9/12/2017		
9/14/2017		6.5
5/1/2018		
5/2/2018		5.5
8/28/2018		
8/29/2018		5.4
11/27/2018		
11/28/2018		6.2
1/8/2019	20.9	
5/29/2019		6.15
7/31/2019		
10/1/2019		5.99
10/2/2019	25.8	
3/31/2020	25.8	5.94
4/1/2020		
9/1/2020	30.6	
9/2/2020		5.94
5/17/2021		6.26
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	30.5	6.4
5/24/2022		
5/25/2022	22.6	6.63

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						3.59	3.99	3.68	3.5
3/1/2016	11.2		24.5		20.4				
4/19/2016						2.89	4.08	3.72	3.63
4/20/2016	10.8		22.5		22.7				
6/6/2016						3.12			3.6
6/7/2016	10.8		21.6				4.28	3.66	
6/8/2016					25.3				
8/30/2016			21.6			3.91	4.26	3.7	3.54
8/31/2016	10.8				24.4				
10/18/2016			20.2			3.9	4.26	3.77	3.68
10/19/2016	10.8				23				
3/20/2017						3.5	4.1	3.7	4.6
3/22/2017	13		24		26				
5/2/2017						3.5 (D)	5 (D)	4.6 (D)	3.9 (D)
5/3/2017	14		25		26				
6/6/2017						3.1 (D)	3.9 (D)	3.4 (D)	3.4 (D)
6/7/2017	14		24		27				
9/12/2017									4.3
9/13/2017						4	4.3	3.9	
9/14/2017	13		24		24				
5/1/2018							3.7	4.1	3.8
5/2/2018	13		23		22	9.9			
8/28/2018					21				
8/29/2018			25						
11/26/2018									3.6
11/27/2018			27			4.7	3.2	3.5	
11/28/2018	13				23				
1/9/2019		16.9		21.9					
5/28/2019									3.6
5/29/2019	13.3		27.4			5.48	2.93	3.58	
5/30/2019					27.7				
9/30/2019	13.1		25.5		21.7				
10/1/2019		13.2		22.6					
10/2/2019						3.65	2.75	3.64	3.5
3/30/2020	13.3	15.5	22.6	22.7					
3/31/2020					20.6	3.17	2.72	3.47	3.34
9/2/2020	12.9	14.2	22.2	22.6	18.5				
9/8/2020									3.29
9/9/2020						2.92	2.32	3.47	
5/11/2021			21.9				2.16	3.42	3.33
5/12/2021						2.18			
5/18/2021	14.2	19		22.7	18.3				
10/18/2021								3.45	3.32
10/19/2021						2.37	2.08		
10/26/2021			21.7	23.9					
10/27/2021	15.3	18.9			19.1				
5/23/2022				22.1					
5/24/2022	13.2	40.4	25		17.3				
5/31/2022						1.93	2.17	3.39	3.31

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.00102		0.00213 (J)					
3/2/2016	0.00591 (J)				0.0042 (J)		0.00656 (J)		0.00552 (J)
4/19/2016	0.0077 (J)								
4/20/2016		<0.00102		0.00214 (J)	0.0034 (J)		0.00661 (J)		0.00572 (J)
6/8/2016	0.00264 (J)	<0.00102		0.00205 (J)	0.00308 (J)		0.0067 (J)		0.00492 (J)
8/30/2016									0.00534 (J)
8/31/2016	0.00246 (J)	<0.00102		0.00221 (J)	0.0032 (J)		0.00693 (J)		
10/18/2016									0.00556 (J)
10/19/2016	0.00248 (J)	<0.00102		0.00213 (J)	0.0035 (J)		0.00732 (J)		
1/31/2017	0.00556 (J)						0.00699 (J)		0.00514 (J)
2/1/2017		<0.00102		0.00228 (J)	0.00371 (J)				
5/2/2017	0.00269 (J)								0.00524 (J)
5/3/2017		<0.00102		0.00229 (J)	0.00369 (J)		0.00712 (J)		
6/6/2017	0.00295 (J)								0.00541 (J)
6/7/2017		<0.00102		0.00233 (J)	0.00372 (J)		0.00752 (J)		
1/22/2018							0.00729 (J)		
1/23/2018		<0.00102		0.00248 (J)	0.00605 (J)				0.00573 (J)
1/24/2018	0.00278 (J)								
5/1/2018	0.00435 (J)								
5/2/2018		<0.00102		0.00273 (J)	0.00351 (J)		0.00642 (J)		0.00534 (J)
11/27/2018									0.00523 (J)
11/28/2018	0.0036 (J)	<0.00102		0.0023 (J)	0.00353 (J)		0.0068 (J)		
1/8/2019			<0.00102			0.0021 (J)			
5/29/2019	0.00223 (J)			0.00211 (J)	0.00333 (J)		0.00727 (J)		0.00455 (J)
5/30/2019		<0.00102							
9/30/2019		<0.00102		0.00228 (J)					
10/1/2019	0.00236 (J)		<0.00102		0.00325 (J)		0.00764 (J)		0.00508 (J)
10/2/2019						<0.00102			
3/30/2020	0.00415 (J)								
3/31/2020		<0.00102	<0.00102	0.00358 (J)	0.0056 (J)	<0.00102	0.00955 (J)		0.00463 (J)
4/1/2020									
9/1/2020	0.00242 (J)	<0.00102	<0.00102	0.00259 (J)	0.00332 (J)	<0.00102	0.00888 (J)		
9/2/2020								0.00525 (J)	0.00482 (J)
5/11/2021		0.000685 (J)							
5/18/2021	0.00294		0.000684 (J)		0.00377	0.00112			
5/19/2021				0.00301			0.00692	0.00416	
5/25/2021									0.00365
10/26/2021							0.00755	0.00606	
10/27/2021		0.00072 (J)	0.00068 (J)						0.00401
11/1/2021	0.00244				0.00423	0.00086 (J)			
11/2/2021				0.00348					
5/23/2022				0.00474	0.00374	0.00081 (J)			
5/24/2022	0.00238	0.00052 (J)	0.00049 (J)				0.00685		
5/25/2022								0.00488	0.00345

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.00102
4/19/2016		<0.00102
4/20/2016		
6/8/2016		<0.00102
8/30/2016		
8/31/2016		<0.00102
10/18/2016		
10/19/2016		<0.00102
1/31/2017		<0.00102
2/1/2017		
5/2/2017		<0.00102
5/3/2017		
6/6/2017		<0.00102
6/7/2017		
1/22/2018		<0.00102
1/23/2018		
1/24/2018		
5/1/2018		<0.00102
5/2/2018		
11/27/2018		<0.00102
11/28/2018		
1/8/2019		
5/29/2019		<0.00102
5/30/2019		
9/30/2019		
10/1/2019		<0.00102
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.00102
9/1/2020		
9/2/2020	<0.00102	<0.00102
5/11/2021		0.000581 (J)
5/18/2021		
5/19/2021		
5/25/2021	0.00113	
10/26/2021	0.00098 (J)	0.00052 (J)
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.0006 (J)	
5/25/2022		0.00049 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.00102							<0.00102
4/19/2016		<0.00102							<0.00102
6/8/2016		<0.00102							<0.00102
8/31/2016		0.00215 (J)							<0.00102
10/19/2016		<0.00102							<0.00102
1/31/2017		<0.00102							<0.00102
5/2/2017		<0.00102							<0.00102
6/6/2017		<0.00102							<0.00102
1/23/2018		0.00253 (J)							
1/24/2018									<0.00102
5/1/2018		<0.00102							<0.00102
11/27/2018		<0.00102							<0.00102
1/8/2019								<0.00102	
3/20/2019						0.00236 (J)			
5/29/2019		<0.00102							<0.00102
7/31/2019	<0.00102			<0.00102			<0.00102		
10/1/2019	<0.00102	<0.00102				<0.00102	<0.00102		<0.00102
10/2/2019				<0.00102				<0.00102	
3/30/2020								<0.00102	
3/31/2020		<0.00102							<0.00102
4/1/2020				<0.00102		<0.00102			
8/31/2020									<0.00102
9/1/2020	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
9/2/2020		<0.00102	<0.00102						
5/17/2021				0.000627 (J)					
5/18/2021					0.000973 (J)			0.000447 (J)	0.000394 (J)
5/19/2021		0.00162	0.000385 (J)			0.00132			
5/25/2021	0.000258 (J)						0.000391 (J)		
10/25/2021				0.0006 (J)	0.00062 (J)	0.00134	0.00044 (J)		
10/26/2021	0.00026 (J)		0.0004 (J)						
11/1/2021		0.0018						0.00045 (J)	0.00029 (J)
5/23/2022						0.00133			
5/24/2022	0.00023 (J)						0.00042 (J)	0.00038 (J)	<0.00102
5/25/2022		0.00135	<0.00102	0.00033 (J)	0.00048 (J)				

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.00209 (J)	
10/1/2019	0.0025 (J)	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.00102	
8/31/2020		
9/1/2020	0.00283 (J)	<0.00102
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.00284	0.000669 (J)
5/25/2021		
10/25/2021		
10/26/2021	0.00261	
11/1/2021		0.00061 (J)
5/23/2022	0.00233	
5/24/2022		0.00046 (J)
5/25/2022		

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.00102	<0.00102
3/2/2016							<0.00102		
4/19/2016							<0.00102	<0.00102	
4/20/2016									<0.00102
6/7/2016							<0.00102	<0.00102	<0.00102
8/30/2016								<0.00102	<0.00102
8/31/2016							<0.00102		
10/18/2016									<0.00102
10/19/2016							<0.00102	<0.00102	
1/31/2017							<0.00102	<0.00102	<0.00102
5/2/2017							<0.00102	<0.00102	
5/3/2017									<0.00102
6/6/2017							<0.00102	<0.00102	
6/7/2017									<0.00102
1/24/2018							<0.00102	<0.00102	<0.00102
5/1/2018							<0.00102	<0.00102	
5/2/2018									<0.00102
11/27/2018							<0.00102	<0.00102	<0.00102
11/28/2018									
1/8/2019				<0.00102					
5/29/2019							<0.00102	<0.00102	<0.00102
7/31/2019	<0.00102	<0.00102							
10/1/2019	<0.00102	<0.00102					<0.00102	<0.00102	<0.00102
10/2/2019				<0.00102					
3/31/2020				<0.00102			<0.00102	<0.00102	<0.00102
4/1/2020		<0.00102							
9/1/2020	<0.00102	<0.00102	0.00284 (J)				<0.00102	<0.00102	<0.00102
9/2/2020				<0.00102	<0.00102	<0.00102			
5/17/2021			0.00163						
5/18/2021							0.000919 (J)	0.000544 (J)	
5/24/2021		0.000814 (J)			0.00117	0.00119			
5/25/2021	0.000667 (J)			0.000878 (J)					
10/26/2021	0.00062 (J)	0.0007 (J)	0.00061 (J)	0.00104					
11/1/2021							0.00093 (J)	0.00067 (J)	
11/2/2021					0.00098 (J)	0.0013			0.00101 (J)
5/24/2022	0.00057 (J)			0.00081 (J)					
5/25/2022		0.00051 (J)	0.00046 (J)		0.00103	0.00126	0.00104	0.00026 (J)	0.00103

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.00102
3/2/2016		
4/19/2016		<0.00102
4/20/2016		
6/7/2016		<0.00102
8/30/2016		<0.00102
8/31/2016		
10/18/2016		
10/19/2016		<0.00102
1/31/2017		<0.00102
5/2/2017		
5/3/2017		<0.00102
6/6/2017		
6/7/2017		<0.00102
1/24/2018		<0.00102
5/1/2018		
5/2/2018		<0.00102
11/27/2018		
11/28/2018		<0.00102
1/8/2019	<0.00102	
5/29/2019		<0.00102
7/31/2019		
10/1/2019		<0.00102
10/2/2019	<0.00102	
3/31/2020	<0.00102	<0.00102
4/1/2020		
9/1/2020	<0.00102	
9/2/2020		<0.00102
5/17/2021		0.000313 (J)
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	0.00099 (J)	0.00023 (J)
5/24/2022		
5/25/2022	0.00048 (J)	0.00029 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.00102	<0.00102	<0.00102	<0.00102
3/1/2016	<0.00102		<0.00102		<0.00102				
4/19/2016						<0.00102	<0.00102	<0.00102	<0.00102
4/20/2016	<0.00102		<0.00102		<0.00102				
6/6/2016						<0.00102			<0.00102
6/7/2016	<0.00102		<0.00102				<0.00102	<0.00102	
6/8/2016					<0.00102				
8/30/2016			<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
8/31/2016	<0.00102				<0.00102				
10/18/2016			<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
10/19/2016	<0.00102				<0.00102				
1/31/2017	<0.00102		<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
2/1/2017					<0.00102				
5/2/2017						<0.00102	<0.00102	<0.00102	<0.00102
5/3/2017	<0.00102		<0.00102		<0.00102				
6/6/2017						<0.00102	<0.00102	<0.00102	<0.00102
6/7/2017	<0.00102		<0.00102		<0.00102				
1/23/2018					<0.00102	<0.00102	0.00596 (J)	0.00229 (J)	<0.00102
1/24/2018	<0.00102		<0.00102						
5/1/2018							<0.00102	<0.00102	<0.00102
5/2/2018	0.00328 (J)		<0.00102		<0.00102	<0.00102			
11/26/2018									<0.00102
11/27/2018			<0.00102			<0.00102	<0.00102	<0.00102	
11/28/2018	<0.00102				<0.00102				
1/9/2019		<0.00102		<0.00102					
5/28/2019									<0.00102
5/29/2019	<0.00102		<0.00102			<0.00102	<0.00102	<0.00102	
5/30/2019					<0.00102				
9/30/2019	<0.00102		<0.00102		<0.00102				
10/1/2019		<0.00102		<0.00102					
10/2/2019						<0.00102	<0.00102	<0.00102	<0.00102
3/30/2020	<0.00102	<0.00102	<0.00102	<0.00102					
3/31/2020					<0.00102	<0.00102	<0.00102	<0.00102	0.00604 (J)
9/2/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102				
9/8/2020									<0.00102
9/9/2020						<0.00102	<0.00102	<0.00102	
5/11/2021			0.00156				0.00136	0.00146	0.00159
5/12/2021						0.000296 (J)			
5/18/2021	0.00709	0.000463 (J)		0.00129	0.00078 (J)				
10/18/2021								0.0013	0.00146
10/19/2021						0.0003 (J)	0.00135		
10/26/2021			0.00165	0.00124					
10/27/2021	0.00309	0.00052 (J)			0.00087 (J)				
5/23/2022				0.00124					
5/24/2022	0.00058 (J)	0.00023 (J)	0.00128		0.0007 (J)				
5/31/2022						0.00033 (J)	0.0012	0.00139	0.00156

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.0002		<0.0002					
3/2/2016	<0.0002				0.00235 (J)		<0.0002		<0.0002
4/19/2016	<0.0002								
4/20/2016		<0.0002		<0.0002	0.00212 (J)		<0.0002		<0.0002
6/8/2016	<0.0002	<0.0002		<0.0002	0.00276 (J)		<0.0002		<0.0002
8/30/2016									<0.0002
8/31/2016	<0.0002	<0.0002		<0.0002	0.00261 (J)		<0.0002		
10/18/2016									<0.0002
10/19/2016	<0.0002	<0.0002		<0.0002	0.00256 (J)		<0.0002		
1/31/2017	<0.0002						<0.0002		<0.0002
2/1/2017		<0.0002		<0.0002	0.00231 (J)				
5/2/2017	<0.0002								<0.0002
5/3/2017		<0.0002		<0.0002	0.00279 (J)		<0.0002		
6/6/2017	<0.0002								<0.0002
6/7/2017		<0.0002		<0.0002	0.00262 (J)		<0.0002		
1/22/2018							<0.0002		
1/23/2018		<0.0002		<0.0002	0.00248 (J)				<0.0002
1/24/2018	<0.0002								
5/1/2018	<0.0002								
5/2/2018		<0.0002		<0.0002	0.00271 (J)		<0.0002		<0.0002
11/27/2018									<0.0002
11/28/2018	<0.0002	<0.0002		<0.0002	0.00274 (J)		<0.0002		
1/8/2019			<0.0002			<0.0002			
5/29/2019	<0.0002			<0.0002	0.00358 (J)		<0.0002		<0.0002
5/30/2019		<0.0002							
9/30/2019		<0.0002		<0.0002					
10/1/2019	<0.0002		<0.0002		0.00303 (J)		<0.0002		<0.0002
10/2/2019						<0.0002			
3/30/2020	<0.0002								
3/31/2020		<0.0002	<0.0002	<0.0002	0.00364 (J)	<0.0002	<0.0002		<0.0002
4/1/2020									
9/1/2020	<0.0002	<0.0002	<0.0002	<0.0002	0.0031 (J)	<0.0002	<0.0002		
9/2/2020								<0.0002	<0.0002
5/11/2021		0.000636							
5/18/2021	0.000996		0.000648		0.00336	0.00237			
5/19/2021				0.00257			0.00113	0.000827	
5/25/2021									0.00124
10/26/2021							0.00122	0.00114	
10/27/2021		0.00065	0.00061						0.00125
11/1/2021	0.00091				0.0037	0.00231			
11/2/2021				0.00118					
5/23/2022				0.00118	0.00428	0.00255			
5/24/2022	0.00091	0.00054	0.00062				0.00189		
5/25/2022								0.00119	0.00125

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.0279
4/19/2016		0.0269
4/20/2016		
6/8/2016		0.0293
8/30/2016		
8/31/2016		0.0272
10/18/2016		
10/19/2016		0.0285
1/31/2017		0.025
2/1/2017		
5/2/2017		0.0274
5/3/2017		
6/6/2017		0.0285
6/7/2017		
1/22/2018		0.0273
1/23/2018		
1/24/2018		
5/1/2018		0.0298
5/2/2018		
11/27/2018		0.0311
11/28/2018		
1/8/2019		
5/29/2019		0.0343
5/30/2019		
9/30/2019		
10/1/2019		0.0336
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.0344
9/1/2020		
9/2/2020	0.00444 (J)	0.0385
5/11/2021		0.0349
5/18/2021		
5/19/2021		
5/25/2021	0.00271	
10/26/2021	0.00419	0.0347
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.00327	
5/25/2022		0.0364

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		0.0212							0.00842 (J)
4/19/2016		0.018							0.008 (J)
6/8/2016		0.0176							0.00796 (J)
8/31/2016		0.0134							0.00752 (J)
10/19/2016		0.0193							0.00778 (J)
1/31/2017		0.017							0.00647 (J)
5/2/2017		0.0166							0.00686 (J)
6/6/2017		0.0172							0.00694 (J)
1/23/2018		0.00621 (J)							
1/24/2018									0.00592 (J)
5/1/2018		0.0189							0.00693 (J)
11/27/2018		0.0182							0.0066
1/8/2019								0.00911	
3/20/2019						<0.0002			
5/29/2019		0.0206							0.00745
7/31/2019	0.0632			<0.0002			<0.0002		
10/1/2019	0.0629	0.0107				<0.0002	<0.0002		0.00696
10/2/2019				0.0033 (J)				0.00289 (J)	
3/30/2020								<0.0002	
3/31/2020		0.0199							0.00716
4/1/2020				<0.0002		0.013			
8/31/2020									0.00751
9/1/2020	0.0665			0.00258 (J)	0.022	<0.0002	<0.0002	0.00407 (J)	
9/2/2020		0.0192	0.0163						
5/17/2021				0.0013					
5/18/2021					0.0197			0.00483	0.00746
5/19/2021		0.0182	0.0153			0.00109			
5/25/2021	0.0694						0.00294		
10/25/2021				0.00371	0.00915	0.00101	0.00501		
10/26/2021	0.0757		0.0159						
11/1/2021		0.0139						0.00578	0.00706
5/23/2022						0.00108			
5/24/2022	0.0764						0.00513	0.00765	0.00582
5/25/2022		0.0155	0.0139	0.0013	0.0685				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.00433 (J)	
10/1/2019	0.00431 (J)	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.00541	
8/31/2020		
9/1/2020	0.0046 (J)	0.012
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.00426	0.0173
5/25/2021		
10/25/2021		
10/26/2021	0.00447	
11/1/2021		0.0236
5/23/2022	0.00423	
5/24/2022		0.0264
5/25/2022		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.0002	<0.0002
3/2/2016							<0.0002		
4/19/2016							<0.0002	<0.0002	
4/20/2016									<0.0002
6/7/2016							<0.0002	0.00424 (J)	<0.0002
8/30/2016								0.00262 (J)	<0.0002
8/31/2016							<0.0002		
10/18/2016									<0.0002
10/19/2016							<0.0002	0.00469 (J)	
1/31/2017							<0.0002	0.0127 (O)	<0.0002
5/2/2017							<0.0002	0.00891 (J)	
5/3/2017									<0.0002
6/6/2017							<0.0002	0.00217 (J)	
6/7/2017									<0.0002
1/24/2018							<0.0002	<0.0002	<0.0002
5/1/2018							<0.0002	0.0126 (O)	
5/2/2018									<0.0002
11/27/2018							<0.0002	0.00363 (J)	<0.0002
11/28/2018									
1/8/2019				0.00243 (J)					
5/29/2019							<0.0002	0.00549	<0.0002
7/31/2019	0.00233 (J)	0.0031 (J)							
10/1/2019	0.00268 (J)	0.00201 (J)					<0.0002	<0.0002	<0.0002
10/2/2019				0.00513					
3/31/2020				0.00528			<0.0002	0.0205	<0.0002
4/1/2020		0.0206							
9/1/2020	0.00294 (J)	0.0273	<0.0002				<0.0002	0.00657	<0.0002
9/2/2020				0.0061	0.00246 (J)	<0.0002			
5/17/2021			0.000217						
5/18/2021							0.000196 (J)	0.018	
5/24/2021		0.00682			0.00156	0.000422			
5/25/2021	0.00264			0.00542					
10/26/2021	0.00285	0.00495	<0.0002	0.00591					
11/1/2021							0.00016 (J)	0.00478	
11/2/2021					0.00146	0.00037			0.00197
5/24/2022	0.0027			0.00571					
5/25/2022		0.002	<0.0002		0.00132	0.00028	0.00028	0.00455	0.00184

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.0002
3/2/2016		
4/19/2016		<0.0002
4/20/2016		
6/7/2016		<0.0002
8/30/2016		<0.0002
8/31/2016		
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
5/2/2017		
5/3/2017		<0.0002
6/6/2017		
6/7/2017		<0.0002
1/24/2018		<0.0002
5/1/2018		
5/2/2018		<0.0002
11/27/2018		
11/28/2018		<0.0002
1/8/2019	<0.0002	
5/29/2019		<0.0002
7/31/2019		
10/1/2019		<0.0002
10/2/2019	<0.0002	
3/31/2020	<0.0002	<0.0002
4/1/2020		
9/1/2020	<0.0002	
9/2/2020		<0.0002
5/17/2021		0.000678
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	0.00013 (J)	0.0006
5/24/2022		
5/25/2022	0.00106	0.00098

Time Series

Constituent: Cobalt (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						0.0035 (J)	<0.0002	<0.0002	<0.0002
3/1/2016	0.011		<0.0002		<0.0002				
4/19/2016						0.0038 (J)	<0.0002	<0.0002	<0.0002
4/20/2016	0.0148		<0.0002		<0.0002				
6/6/2016						0.00427 (J)			<0.0002
6/7/2016	0.0172		<0.0002				<0.0002	<0.0002	
6/8/2016					<0.0002				
8/30/2016			<0.0002			0.00348 (J)	<0.0002	<0.0002	<0.0002
8/31/2016	0.0175				<0.0002				
10/18/2016			<0.0002			0.00338 (J)	<0.0002	<0.0002	<0.0002
10/19/2016	0.0189				<0.0002				
1/31/2017	0.0165		<0.0002			0.00308 (J)	<0.0002	<0.0002	<0.0002
2/1/2017					<0.0002				
5/2/2017						0.00314 (J)	<0.0002	<0.0002	<0.0002
5/3/2017	0.0172		<0.0002		<0.0002				
6/6/2017						0.0036 (J)	<0.0002	<0.0002	<0.0002
6/7/2017	0.0173		<0.0002		<0.0002				
1/23/2018					<0.0002	0.00586 (J)	0.0021 (J)	<0.0002	<0.0002
1/24/2018	0.0158		<0.0002						
5/1/2018							<0.0002	<0.0002	<0.0002
5/2/2018	0.0169		<0.0002		<0.0002	0.00702 (J)			
11/26/2018									<0.0002
11/27/2018			<0.0002			0.0157		<0.0002	
11/28/2018	0.0178				<0.0002				
1/9/2019		<0.0002		<0.0002					
5/28/2019									<0.0002
5/29/2019	0.0197		<0.0002			0.0109	0.00248 (J)	<0.0002	
5/30/2019					<0.0002				
9/30/2019	0.0186		<0.0002		<0.0002				
10/1/2019		<0.0002		<0.0002					
10/2/2019						0.0129	0.00244 (J)	<0.0002	<0.0002
3/30/2020	0.0172	<0.0002	<0.0002	<0.0002					
3/31/2020					<0.0002	0.0123	0.00224 (J)	<0.0002	<0.0002
9/2/2020	0.0197	<0.0002	<0.0002	<0.0002	<0.0002				
9/8/2020									<0.0002
9/9/2020						0.00697	0.00219 (J)	<0.0002	
5/11/2021			0.000778				0.00194	0.00142	0.00137
5/12/2021						0.00611			
5/18/2021	0.0189	0.000139 (J)		0.000882	0.000725				
10/18/2021								0.00146	0.00139
10/19/2021						0.00517	0.00192		
10/26/2021			0.00079	0.00088					
10/27/2021	0.0206	0.00013 (J)			0.0007				
5/23/2022				0.00092					
5/24/2022	0.023	0.00011 (J)	0.00067		0.00069				
5/31/2022						0.00487	0.00194	0.00149	0.0015

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<3		<3					
3/2/2016	<3				<3		<3		<3
4/19/2016	3.0268								
4/20/2016		<3		0.667	<3		0.398		<3
6/7/2016					1.08		0.812		
6/8/2016	1.59	1.06		0.704					0.631
8/30/2016									0.693
8/31/2016	2.19	0.871		0.726	0.528		0.46 (U)		
10/18/2016									0.626
10/19/2016		1.575 (D)		0.737	0.81		0.601		
1/31/2017	1.23						1.1		0.0723 (U)
2/1/2017		1		0.766	1.11				
5/2/2017	1.62								0.363 (U)
5/3/2017		1.07		0.515	0.639		0.832		
6/6/2017	1.24								0.198 (U)
6/7/2017		0.254 (U)		1.04	0.705		0.752		
1/22/2018							0.898 (U)		
1/23/2018		0.795 (U)		1.17 (U)	1.1 (U)				0.294 (U)
1/24/2018	1.96 (U)								
5/1/2018	1.6								
5/2/2018		0.405		0.505	1.11		0.752		0.522
11/27/2018									0.576
11/28/2018	1.48	0.609		0.232 (U)	0.846		0.523		
1/8/2019			1.35			1.04			
5/29/2019	2.25			0.726	2.06		1.01		0.437 (U)
5/30/2019		0.0949 (U)							
9/30/2019		0.965		0.489 (U)					
10/1/2019	2.84		1.99		0.984		1.07		1.11
10/2/2019						0.896			
3/30/2020	2.31								
3/31/2020		1.14	0.957	0.462 (U)	1.26	0.923	0.725		0.941
4/1/2020									
6/17/2020								1.22	
5/11/2021		1.12 (U)							
5/18/2021	2.99		1.66		1.11	1.31			
5/19/2021				1.15			1.15	0.783 (U)	
5/25/2021									0.978 (U)
10/26/2021							1.74	1.6	
10/27/2021		1.2 (U)	1.44 (U)						0.587 (U)
11/1/2021	2.22				1.79	0.814 (U)			
11/2/2021				0.504 (U)					
5/23/2022				0.452 (U)	1.4	0.962 (U)			
5/24/2022	2.12	1.36 (U)	1.2				0.915 (U)		
5/25/2022								0.951 (U)	1.25

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<3
4/19/2016		<3
4/20/2016		
6/7/2016		
6/8/2016		0.557
8/30/2016		
8/31/2016		0.765
10/18/2016		
10/19/2016		0.654
1/31/2017		0.402 (U)
2/1/2017		
5/2/2017		0.578
5/3/2017		
6/6/2017		0.128 (U)
6/7/2017		
1/22/2018		0.768 (U)
1/23/2018		
1/24/2018		
5/1/2018		0.651
5/2/2018		
11/27/2018		0.764
11/28/2018		
1/8/2019		
5/29/2019		0.433
5/30/2019		
9/30/2019		
10/1/2019		0.988
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.527
6/17/2020	0.726	
5/11/2021		0.684 (U)
5/18/2021		
5/19/2021		
5/25/2021	0.859 (U)	
10/26/2021	1.34 (U)	1.95
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	1.26	
5/25/2022		1.3

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<3							<3
4/19/2016		<3							<3
6/8/2016		0.344 (U)							0.121 (U)
8/31/2016		0.582							0.348 (U)
10/19/2016		0.448							0.48
1/31/2017		0.653							0.00333 (U)
5/2/2017		0.698							0.4 (U)
6/6/2017		0.548							0.083 (U)
1/23/2018		0.98 (U)							
1/24/2018									0.404 (U)
5/1/2018		0.623							0.457
11/27/2018		0.744							0.359 (U)
1/8/2019								1.06	
5/29/2019		2.51							1.18
7/31/2019	1.09 (D)			0.621 (D)			0.272 (UD)		
10/1/2019	1.51	0.443 (U)				0.6	0.817		0.284 (U)
10/2/2019				1.14				1.03	
3/30/2020								0.579	
3/31/2020		0.341 (U)							0.699
4/1/2020				0.797		1.05			
5/12/2020	1.67						0.691		
6/16/2020			0.642		2.17				
6/17/2020									
5/17/2021				1.64					
5/18/2021					1.05 (U)			0.814 (U)	0.72 (U)
5/19/2021		0.321 (U)	0.496 (U)			0.971 (U)			
5/25/2021	1.72						1.04 (U)		
10/25/2021				1.57	1.04 (U)	1.2	1.03 (U)		
10/26/2021	2.53		0.773 (U)						
11/1/2021		1.28						1.3 (U)	0.523 (U)
5/23/2022						1.03 (U)			
5/24/2022	1.85						1.06 (U)	2	0.732 (U)
5/25/2022		0.927 (U)	1.03 (U)	1.71	5.37				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
5/29/2019		
7/31/2019	0.268 (UD)	
10/1/2019	1.22	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.968	
5/12/2020		
6/16/2020		
6/17/2020		0.767
5/17/2021		
5/18/2021		
5/19/2021	1.03 (U)	1.43
5/25/2021		
10/25/2021		
10/26/2021	1.28 (U)	
11/1/2021		1.48
5/23/2022	0.657 (U)	
5/24/2022		0.97 (U)
5/25/2022		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<3	<3
3/2/2016							<3		
4/19/2016							<3	<3	
4/20/2016									3.0801
6/7/2016							0.455	0.287 (U)	1.5
8/30/2016								0.585	1.17
8/31/2016							0.329 (U)		
10/18/2016									1.93
10/19/2016							0.536	1.85	
1/31/2017							0.496	0.25 (U)	1
5/2/2017							0.149 (U)	0.391 (U)	
5/3/2017									1.48
6/6/2017							0.191 (U)	0.183 (U)	
6/7/2017									0.915
1/24/2018							0.543 (U)	0.622 (U)	1.74 (U)
5/1/2018							0.372 (U)	0.0917 (U)	
5/2/2018									0.58
11/27/2018							0.591	0.695	1.43
11/28/2018									
1/8/2019				1.49					
5/29/2019							2.31	0.947	2.16
7/31/2019	0.448 (D)	0.331 (UD)							
10/1/2019	0.508	1.05					1.52	0.7	2.14
10/2/2019				1.24					
3/31/2020				0.577			0.478 (U)	0.323 (U)	0.754
4/1/2020		0.618							
5/12/2020	0.61								
6/16/2020			0.752 (U)						
6/17/2020					0.554	0.479			
5/17/2021			0.374 (U)						
5/18/2021							0.749 (U)	0.734 (U)	
5/24/2021		1.1 (U)			0.545 (U)	0.531 (U)			
5/25/2021	1.26			0.695 (U)					
10/26/2021	1.52	1.13 (U)	0.285 (U)	0.987 (U)					
11/1/2021							0.688 (U)	0.888 (U)	
11/2/2021					0.707 (U)	1.05 (U)			2.06
5/24/2022	0.656 (U)			1.08 (U)					
5/25/2022		0.674 (U)	0.285 (U)		0.682 (U)	0.527 (U)	1.72	0.821 (U)	1.71

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<3
3/2/2016		
4/19/2016		<3
4/20/2016		
6/7/2016		0.353 (U)
8/30/2016		0.428 (U)
8/31/2016		
10/18/2016		
10/19/2016		0.449 (U)
1/31/2017		-0.0173 (U)
5/2/2017		
5/3/2017		0.447
6/6/2017		
6/7/2017		0.572
1/24/2018		1.09 (U)
5/1/2018		
5/2/2018		0.187 (U)
11/27/2018		
11/28/2018		0.478 (U)
1/8/2019	0.298 (U)	
5/29/2019		-0.276 (U)
7/31/2019		
10/1/2019		0.742
10/2/2019	0.206 (U)	
3/31/2020	0.024 (U)	0.291 (U)
4/1/2020		
5/12/2020		
6/16/2020		
6/17/2020		
5/17/2021		1.84
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	0.158 (U)	0.773 (U)
5/24/2022		
5/25/2022	1.03 (U)	1.06 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						2.8971 (U)	3 (U)	3 (U)	2.1138
3/1/2016	<3		<3		<3				
4/19/2016						3 (U)	3 (U)	3 (U)	3 (U)
4/20/2016	<3		<3		<3				
6/6/2016						0.841			0.757
6/7/2016	0.555 (U)		0.853				0.652	0.342 (U)	
6/8/2016					0.837				
8/30/2016			0.669			1.74	0.411 (U)	0.702	0.992
8/31/2016	0.284 (U)				0.917				
10/18/2016			1.32			1.47	1	0.791	0.905
10/19/2016	0.557 (U)				1.41				
1/31/2017	0.0949 (U)		0.801			0.952	0.398 (U)	0.0613 (U)	1.08
2/1/2017					0.785				
5/2/2017						0.768	0.66	0.974	1.18
5/3/2017	0.53		0.648		1.33				
6/6/2017						1.04	0.639	0.748	1.1
6/7/2017	-0.231 (U)		0.408 (U)		0.758				
1/23/2018					1.06 (U)	0.513 (U)	0.669 (U)	0.558 (U)	1.32 (U)
1/24/2018	0.691 (U)		0.706 (U)						
5/1/2018							1.06	0.296 (U)	1.19
5/2/2018	0.535		0.572		0.983	0.916			
11/26/2018									0.863
11/27/2018			0.687			1.37	0.636	0.357 (U)	
11/28/2018	0.62				0.747				
1/9/2019		0.527		1.69					
5/28/2019									0.474 (U)
5/29/2019	0.244 (U)		0.627 (U)			1.57	0.579 (U)	0.275 (U)	
5/30/2019					1.08				
9/30/2019	0.388 (U)		0.321 (U)		0.58				
10/1/2019		1.01		1.66					
10/2/2019						0.905	1.33	0.458 (U)	0.624 (U)
3/30/2020	0.744	0.604	0.6	0.787					
3/31/2020					0.82	1.77	0.814	0.941	1.09
5/11/2021			0.648 (U)				0.945 (U)	0.521 (U)	0.969 (U)
5/12/2021						0.639 (U)			
5/18/2021	0.597 (U)	0.199 (U)		0.975 (U)	0.98 (U)				
10/18/2021								1.75	2.19
10/19/2021						1.77	1.85		
10/26/2021			1.61	1.61					
10/27/2021	1.46 (U)	0.914 (U)			1.07 (U)				
5/23/2022				1.13					
5/24/2022	1.05 (U)	0.619 (U)	0.733 (U)		2.11				
5/31/2022						1.34	1.38	1.67	1.47

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		0.02 (J)		0.06 (J)					
3/2/2016	0.03 (J)				0.04 (J)		0.05 (J)		0.07 (J)
4/19/2016	0.052 (J)								
4/20/2016		0.034 (J)		0.073 (J)	0.059 (J)		0.064 (J)		0.076 (J)
6/8/2016	0.069 (J)	0.061 (J)		0.085 (J)	0.08 (J)		0.082 (J)		0.105 (J)
8/30/2016									0.083 (J)
8/31/2016	0.043 (J)	0.04 (J)		0.064 (J)	0.059 (J)		0.062 (J)		
10/18/2016									0.067 (J)
10/19/2016	<0.125	0.03 (J)		0.05 (J)	0.045 (J)		0.049 (J)		
3/21/2017	0.04 (J)								
3/22/2017		<0.125		0.05 (J)	0.04 (J)		0.05 (J)		0.06 (J)
5/2/2017	0.05 (J)								0.08 (J)
5/3/2017		0.04 (J)		0.06 (J)	0.06 (J)		0.06 (J)		
6/6/2017	0.049 (J)								0.077 (J)
6/7/2017		0.04 (J)		0.06 (J)	0.06 (J)		0.07 (J)		
9/13/2017	<0.125 (U*)			<0.125 (U*)	<0.125 (U*)		<0.125 (U*)		<0.125 (U*)
9/14/2017		0.04 (J)							
1/22/2018							0.06 (J)		
1/23/2018		<0.125		0.06 (J)	0.05 (J)				0.08 (J)
1/24/2018	0.05 (J)								
5/1/2018	0.05 (J)								
5/2/2018		<0.125		0.06 (J)	0.06 (J)		0.07 (J)		0.08 (J)
11/27/2018									0.06 (J)
11/28/2018	<0.125	<0.125		0.05 (J)	0.04 (J)		0.05 (J)		
1/8/2019			0.123			0.0729 (J)			
5/29/2019	0.0858 (J)			0.0759 (J)	0.0677 (J)		0.0679 (J)		0.0781 (J)
5/30/2019		0.0573 (J)							
9/30/2019		<0.125		0.0733 (J)					
10/1/2019	0.0744 (J)		0.0517 (J)		0.0682 (J)		0.0703 (J)		0.0885 (J)
10/2/2019						0.12			
3/30/2020	0.0726 (J)								
3/31/2020		<0.125	<0.125	0.078 (J)	0.0755 (J)	0.0828 (J)	0.0665 (J)		0.0867 (J)
4/1/2020									
9/1/2020	0.194	0.0794 (J)	0.0695 (J)	0.0841 (J)	0.0845 (J)	0.0947 (J)	0.0757 (J)		
9/2/2020								0.0864 (J)	0.0957 (J)
5/11/2021		0.105							
5/18/2021	0.0884 (J)		<0.125		0.0614 (J)	0.0783 (J)			
5/19/2021				0.0994 (J)			0.0748 (J)	0.0884 (J)	
5/25/2021									0.0957 (J)
10/26/2021							0.0641 (J)	0.096 (J)	
10/27/2021		<0.125	<0.125						0.0651 (J)
11/1/2021	0.181				0.0928 (J)	0.123			
11/2/2021				0.101					
5/23/2022				0.0709 (J)	0.0873 (J)	<0.125			
5/24/2022	0.0801 (J)	<0.125 (D)	<0.125				0.0769 (J)		
5/25/2022								<0.125	0.0733 (J)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.18 (J)
4/19/2016		0.21 (J)
4/20/2016		
6/8/2016		0.223 (J)
8/30/2016		
8/31/2016		0.196 (J)
10/18/2016		
10/19/2016		0.166 (J)
3/21/2017		0.18
3/22/2017		
5/2/2017		0.18
5/3/2017		
6/6/2017		0.18
6/7/2017		
9/13/2017		<0.125 (U*)
9/14/2017		
1/22/2018		0.19
1/23/2018		
1/24/2018		
5/1/2018		0.19
5/2/2018		
11/27/2018		0.18
11/28/2018		
1/8/2019		
5/29/2019		0.168
5/30/2019		
9/30/2019		
10/1/2019		0.185
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.187
9/1/2020		
9/2/2020	0.359	0.18
5/11/2021		0.214
5/18/2021		
5/19/2021		
5/25/2021	0.378	
10/26/2021	0.384	0.171
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.291	
5/25/2022		0.214

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		0.04 (J)							0.04 (J)
4/19/2016		0.05 (J)							0.038 (J)
6/8/2016		0.073 (J)							0.067 (J)
8/31/2016		0.051 (J)							0.05 (J)
10/19/2016		<0.125							<0.125
3/21/2017		0.04 (J)							<0.125
5/2/2017		0.05 (J)							0.04 (J)
6/6/2017		0.053 (J)							0.04 (J)
9/12/2017									0.037 (J)
9/13/2017		<0.125 (U*)							
1/23/2018		0.05 (J)							
1/24/2018									<0.125
5/1/2018		0.05 (J)							<0.125
11/27/2018		<0.125							<0.125
1/8/2019								0.0548 (J)	
3/20/2019						0.215			
5/29/2019		0.0683 (J)							<0.125
7/31/2019	0.0515 (J)			0.178			0.153		
10/1/2019	0.0931 (J)	0.0774 (J)				0.071 (J)	0.0712 (J)		<0.125
10/2/2019				0.254				0.0595 (J)	
3/30/2020								<0.125	
3/31/2020		0.0602 (J)							<0.125
4/1/2020				0.151		0.0722 (J)			
8/31/2020									<0.125
9/1/2020	0.0624 (J)			0.196	0.144	0.0784 (J)	0.0752 (J)	<0.125	
9/2/2020		<0.125	<0.125						
5/17/2021				0.148					
5/18/2021					0.16			<0.125	<0.125
5/19/2021		0.0793 (J)	<0.125			0.0886 (J)			
5/25/2021	<0.125						0.0673 (J)		
10/25/2021				0.162	0.172	0.11	<0.125		
10/26/2021	0.0808 (J)		<0.125						
11/1/2021		0.0887 (J)						<0.125	<0.125
5/23/2022						0.0857 (J)			
5/24/2022	<0.125 (D)						<0.125	<0.125	<0.125
5/25/2022		<0.125	<0.125	0.138	0.0799 (J)				

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
3/21/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.0934 (J)	
10/1/2019	0.0838 (J)	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.0793 (J)	
8/31/2020		
9/1/2020	0.0954 (J)	0.106
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.0852 (J)	0.123
5/25/2021		
10/25/2021		
10/26/2021	0.114	
11/1/2021		0.14
5/23/2022	0.124 (J)	
5/24/2022		0.0811 (J)
5/25/2022		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								0.02 (J)	0.04 (J)
3/2/2016							0.01 (J)		
4/19/2016							0.014 (J)	0.016 (J)	
4/20/2016									0.043 (J)
6/7/2016							0.049 (J)	0.047 (J)	0.075 (J)
8/30/2016								0.035 (J)	0.057 (J)
8/31/2016							0.034 (J)		
10/18/2016									0.049 (J)
10/19/2016							0.023 (J)	0.025 (J)	
3/21/2017							<0.125	<0.125	
3/22/2017									0.04 (J)
5/2/2017							<0.125	<0.125	
5/3/2017									0.05 (J)
6/6/2017							<0.125	<0.125	
6/7/2017									0.05 (J)
9/12/2017							<0.125	<0.125	
9/14/2017									0.06 (J)
1/24/2018							<0.125	<0.125	0.05 (J)
5/1/2018							<0.125	<0.125	
5/2/2018									0.05 (J)
11/27/2018							<0.125	<0.125	<0.125
11/28/2018									
1/8/2019				0.147					
5/29/2019							<0.125	<0.125	0.0923 (J)
7/31/2019	0.257	0.0766 (J)							
10/1/2019	0.268	0.0804 (J)					<0.125	<0.125	0.0557 (J)
10/2/2019				0.183					
3/31/2020				0.148			<0.125	<0.125	0.0735 (J)
4/1/2020		0.0607 (J)							
9/1/2020	0.301	0.0919 (J)	0.401				<0.125	<0.125	0.0921 (J)
9/2/2020				0.158	<0.125	<0.125			
5/17/2021			0.379						
5/18/2021							<0.125	<0.125	
5/24/2021		0.0734 (J)			<0.125	<0.125			
5/25/2021	0.282			0.156					
10/26/2021	0.323	0.0709 (J)	0.445	0.158					
11/1/2021							<0.125	<0.125	
11/2/2021					<0.125	<0.125			0.0964 (J)
5/24/2022	0.318			0.135					
5/25/2022		<0.125	0.385		<0.125	<0.125	<0.125	<0.125	<0.125

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.125
3/2/2016		
4/19/2016		0.016 (J)
4/20/2016		
6/7/2016		0.048 (J)
8/30/2016		0.034 (J)
8/31/2016		
10/18/2016		
10/19/2016		0.023 (J)
3/21/2017		
3/22/2017		<0.125
5/2/2017		
5/3/2017		<0.125
6/6/2017		
6/7/2017		<0.125
9/12/2017		
9/14/2017		<0.125
1/24/2018		<0.125
5/1/2018		
5/2/2018		<0.125
11/27/2018		
11/28/2018		<0.125
1/8/2019	<0.125	
5/29/2019		<0.125
7/31/2019		
10/1/2019		<0.125
10/2/2019	0.0777 (J)	
3/31/2020	<0.125	<0.125
4/1/2020		
9/1/2020	0.0807 (J)	
9/2/2020		<0.125
5/17/2021		<0.125
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	0.0627 (J)	<0.125
5/24/2022		
5/25/2022	<0.125	<0.125

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						0.03 (J)	0.02 (J)	0.02 (J)	0.02 (J)
3/1/2016	0.06 (J)		0.03 (J)		0.04 (J)				
4/19/2016						0.023 (J)	0.021 (J)	0.016 (J)	0.015 (J)
4/20/2016	0.078 (J)		0.043 (J)		0.052 (J)				
6/6/2016						0.062 (J)			0.05 (J)
6/7/2016	0.101 (J)		0.069 (J)				0.06 (J)	0.052 (J)	
6/8/2016					0.077 (J)				
8/30/2016			0.052 (J)			0.053 (J)	0.05 (J)	0.038 (J)	0.036 (J)
8/31/2016	0.086 (J)				0.056 (J)				
10/18/2016			0.042 (J)			0.042 (J)	0.04 (J)	0.03 (J)	0.025 (J)
10/19/2016	0.075 (J)				0.045 (J)				
3/20/2017						<0.125	<0.125	<0.125	<0.125
3/22/2017	0.06 (J)		<0.125		0.05 (J)				
5/2/2017						0.04 (JD)	0.04 (JD)	0.075 (D)	0.075 (D)
5/3/2017	0.08 (J)		0.05 (J)		0.06 (J)				
6/6/2017						0.075 (D)	0.04 (JD)	0.075 (D)	0.075 (D)
6/7/2017	0.08 (J)		0.05 (J)		0.06 (J)				
9/12/2017									<0.125
9/13/2017						0.04 (J)	0.043 (J)	<0.125	
9/14/2017	0.07 (J)		0.05 (J)		0.07 (J)				
1/23/2018					0.06 (J)	<0.125	0.04 (J)	<0.125	<0.125
1/24/2018	0.09 (J)		0.04 (J)						
5/1/2018							0.04 (J)	<0.125	<0.125
5/2/2018	0.08 (J)		0.04 (J)		0.05 (J)	0.04 (J)			
11/26/2018									<0.125
11/27/2018			<0.125			<0.125	<0.125	<0.125	
11/28/2018	0.07 (J)				0.04 (J)				
1/9/2019		0.139		0.0831 (J)					
5/28/2019									<0.125
5/29/2019	0.0937 (J)		0.0958 (J)			0.0502 (J)	<0.125	<0.125	
5/30/2019					0.0763 (J)				
9/30/2019	0.0925 (J)		0.0559 (J)		0.0679 (J)				
10/1/2019		0.0871 (J)		0.0832 (J)					
10/2/2019						<0.125	<0.125	<0.125	<0.125
3/30/2020	0.0933 (J)	0.127	0.0701 (J)	0.0935 (J)					
3/31/2020					0.0655 (J)	<0.125	<0.125	<0.125	<0.125
9/2/2020	0.109	0.126	<0.125	0.098 (J)	0.0804 (J)				
9/8/2020									<0.125
9/9/2020						<0.125	<0.125	<0.125	
5/11/2021			0.094 (J)				<0.125	<0.125	<0.125
5/12/2021						<0.125			
5/18/2021	0.11	0.112		0.0958 (J)	0.0709 (J)				
10/18/2021								<0.125	<0.125
10/19/2021						<0.125	<0.125		
10/26/2021			<0.125	0.107					
10/27/2021	0.0823 (J)	0.0795 (J)			0.0803 (J)				
5/23/2022				0.108 (J)					
5/24/2022	0.0724 (J)	0.0869 (J)	0.0713 (J)		<0.125				
5/31/2022						<0.125	<0.125	<0.125	<0.125

Time Series

Constituent: Lead (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.0002		<0.0002					
3/2/2016	<0.0002				<0.0002		<0.0002		<0.0002
4/19/2016	<0.0002								
4/20/2016		<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
6/8/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
8/30/2016									<0.0002
8/31/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
10/18/2016									<0.0002
10/19/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
1/31/2017	<0.0002						<0.0002		<0.0002
2/1/2017		<0.0002		<0.0002	<0.0002				
5/2/2017	<0.0002								<0.0002
5/3/2017		<0.0002		<0.0002	<0.0002		<0.0002		
6/6/2017	<0.0002								<0.0002
6/7/2017		<0.0002		<0.0002	<0.0002		<0.0002		
1/22/2018							<0.0002		
1/23/2018		<0.0002		<0.0002	<0.0002				<0.0002
1/24/2018	<0.0002								
5/1/2018	<0.0002								
5/2/2018		<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
11/27/2018									<0.0002
11/28/2018	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
1/8/2019			<0.0002			<0.0002			
5/29/2019	<0.0002			<0.0002	<0.0002		<0.0002		<0.0002
5/30/2019		<0.0002							
9/30/2019		<0.0002		<0.0002					
10/1/2019	<0.0002		<0.0002		<0.0002		<0.0002		<0.0002
10/2/2019						<0.0002			
3/30/2020	<0.0002								
3/31/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
4/1/2020									
9/1/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/2/2020								<0.0002	<0.0002
5/11/2021		<0.0002							
5/18/2021	<0.0002		<0.0002		0.000326	8.16E-05 (J)			
5/19/2021				0.000102 (J)			<0.0002	<0.0002	
5/25/2021									7.64E-05 (J)
10/26/2021							<0.0002	<0.0002	
10/27/2021		<0.0002	<0.0002						9E-05 (J)
11/1/2021	<0.0002				0.00029	<0.0002			
11/2/2021				0.00013 (J)					
5/23/2022				9E-05 (J)	0.00018 (J)	<0.0002			
5/24/2022	<0.0002	<0.0002	<0.0002				0.00015 (J)		
5/25/2022								<0.0002	0.0001 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.0002
4/19/2016		<0.0002
4/20/2016		
6/8/2016		<0.0002
8/30/2016		
8/31/2016		<0.0002
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
2/1/2017		
5/2/2017		<0.0002
5/3/2017		
6/6/2017		<0.0002
6/7/2017		
1/22/2018		<0.0002
1/23/2018		
1/24/2018		
5/1/2018		<0.0002
5/2/2018		
11/27/2018		<0.0002
11/28/2018		
1/8/2019		
5/29/2019		<0.0002
5/30/2019		
9/30/2019		
10/1/2019		<0.0002
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.0002
9/1/2020		
9/2/2020	<0.0002	<0.0002
5/11/2021		<0.0002
5/18/2021		
5/19/2021		
5/25/2021	7.24E-05 (J)	
10/26/2021	<0.0002	<0.0002
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.0002	
5/25/2022		<0.0002

Time Series

Constituent: Lead (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.0002							<0.0002
4/19/2016		<0.0002							<0.0002
6/8/2016		<0.0002							<0.0002
8/31/2016		<0.0002							<0.0002
10/19/2016		<0.0002							<0.0002
1/31/2017		<0.0002							<0.0002
5/2/2017		<0.0002							<0.0002
6/6/2017		<0.0002							<0.0002
1/23/2018		<0.0002							<0.0002
1/24/2018									<0.0002
5/1/2018		<0.0002							<0.0002
11/27/2018		<0.0002							<0.0002
1/8/2019								<0.0002	
3/20/2019						<0.0002			
5/29/2019		<0.0002							<0.0002
7/31/2019	<0.0002			<0.0002			<0.0002		
10/1/2019	<0.0002	<0.0002				<0.0002	<0.0002		<0.0002
10/2/2019				<0.0002				<0.0002	
3/30/2020								<0.0002	
3/31/2020		<0.0002							<0.0002
4/1/2020				<0.0002		<0.0002			
8/31/2020									<0.0002
9/1/2020	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/2/2020		<0.0002	<0.0002						
5/17/2021				9.09E-05 (J)					
5/18/2021					0.000137 (J)			<0.0002	<0.0002
5/19/2021		0.000191 (J)	<0.0002			<0.0002			
5/25/2021	<0.0002						<0.0002		
10/25/2021				<0.0002	<0.0002	<0.0002	<0.0002		
10/26/2021	<0.0002		<0.0002						
11/1/2021		<0.0002						<0.0002	<0.0002
5/23/2022						<0.0002			
5/24/2022	0.00011 (J)						<0.0002	<0.0002	<0.0002
5/25/2022		<0.0002	<0.0002	<0.0002	7E-05 (J)				

Time Series

Constituent: Lead (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.0002	
10/1/2019	<0.0002	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.0002	
8/31/2020		
9/1/2020	<0.0002	<0.0002
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.000224	<0.0002
5/25/2021		
10/25/2021		
10/26/2021	<0.0002	
11/1/2021		<0.0002
5/23/2022	<0.0002	
5/24/2022		<0.0002
5/25/2022		

Time Series

Constituent: Lead (mg/L) Analysis Run 7/21/2022 3:45 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.0002	<0.0002
3/2/2016							<0.0002		
4/19/2016							<0.0002	<0.0002	
4/20/2016									<0.0002
6/7/2016							<0.0002	<0.0002	<0.0002
8/30/2016								<0.0002	<0.0002
8/31/2016							<0.0002		
10/18/2016									<0.0002
10/19/2016							<0.0002	<0.0002	
1/31/2017							<0.0002	<0.0002	<0.0002
5/2/2017							<0.0002	<0.0002	
5/3/2017									<0.0002
6/6/2017							<0.0002	<0.0002	
6/7/2017									<0.0002
1/24/2018							<0.0002	<0.0002	<0.0002
5/1/2018							<0.0002	<0.0002	
5/2/2018									<0.0002
11/27/2018							<0.0002	<0.0002	<0.0002
11/28/2018									
1/8/2019				<0.0002					
5/29/2019							<0.0002	<0.0002	<0.0002
7/31/2019	<0.0002	<0.0002							
10/1/2019	<0.0002	<0.0002					<0.0002	<0.0002	<0.0002
10/2/2019				<0.0002					
3/31/2020				<0.0002			<0.0002	<0.0002	<0.0002
4/1/2020		<0.0002							
9/1/2020	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002
9/2/2020				<0.0002	<0.0002	<0.0002			
5/17/2021			0.000216						
5/18/2021							<0.0002	0.00013 (J)	
5/24/2021		<0.0002			<0.0002	<0.0002			
5/25/2021	<0.0002			<0.0002					
10/26/2021	<0.0002	<0.0002	0.0001 (J)	<0.0002					
11/1/2021							<0.0002	7E-05 (J)	
11/2/2021					<0.0002	<0.0002			<0.0002
5/24/2022	<0.0002			<0.0002					
5/25/2022		<0.0002	0.00012 (J)		<0.0002	<0.0002	<0.0002	0.00018 (J)	<0.0002

Time Series

Constituent: Lead (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.0002
3/2/2016		
4/19/2016		<0.0002
4/20/2016		
6/7/2016		<0.0002
8/30/2016		<0.0002
8/31/2016		
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
5/2/2017		
5/3/2017		<0.0002
6/6/2017		
6/7/2017		<0.0002
1/24/2018		<0.0002
5/1/2018		
5/2/2018		<0.0002
11/27/2018		
11/28/2018		<0.0002
1/8/2019	<0.0002	
5/29/2019		0.00185 (J)
7/31/2019		
10/1/2019		0.00545
10/2/2019	<0.0002	
3/31/2020	<0.0002	0.00276 (J)
4/1/2020		
9/1/2020	<0.0002	
9/2/2020		0.00171 (J)
5/17/2021		0.00162
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.0002	0.00336
5/24/2022		
5/25/2022	<0.0002	0.0112

Time Series

Constituent: Lead (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.0002	<0.0002	<0.0002	<0.0002
3/1/2016	<0.0002		<0.0002		<0.0002				
4/19/2016						<0.0002	<0.0002	<0.0002	<0.0002
4/20/2016	<0.0002		<0.0002		<0.0002				
6/6/2016						<0.0002			<0.0002
6/7/2016	<0.0002		<0.0002				<0.0002	<0.0002	
6/8/2016					<0.0002				
8/30/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
8/31/2016	<0.0002				<0.0002				
10/18/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
10/19/2016	<0.0002				<0.0002				
1/31/2017	<0.0002		<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/1/2017					<0.0002				
5/2/2017						<0.0002	<0.0002	<0.0002	<0.0002
5/3/2017	<0.0002		<0.0002		<0.0002				
6/6/2017						<0.0002	<0.0002	<0.0002	<0.0002
6/7/2017	<0.0002		<0.0002		<0.0002				
1/23/2018					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2018	<0.0002		<0.0002						
5/1/2018							<0.0002	<0.0002	<0.0002
5/2/2018	<0.0002		<0.0002		<0.0002	<0.0002			
11/26/2018									<0.0002
11/27/2018			<0.0002			<0.0002	<0.0002	<0.0002	
11/28/2018	<0.0002				<0.0002				
1/9/2019		<0.0002		<0.0002					
5/28/2019									<0.0002
5/29/2019	<0.0002		<0.0002			<0.0002	<0.0002	<0.0002	
5/30/2019					0.00108 (J)				
9/30/2019	<0.0002		<0.0002		<0.0002				
10/1/2019		<0.0002		<0.0002					
10/2/2019						<0.0002	<0.0002	<0.0002	<0.0002
3/30/2020	<0.0002	<0.0002	<0.0002	<0.0002					
3/31/2020					<0.0002	<0.0002	<0.0002	<0.0002	0.00126 (J)
9/2/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
9/8/2020									<0.0002
9/9/2020						<0.0002	<0.0002	<0.0002	
5/11/2021			<0.0002				0.000118 (J)	<0.0002	0.000159 (J)
5/12/2021						9.79E-05 (J)			
5/18/2021	<0.0002	<0.0002		<0.0002	<0.0002				
10/18/2021								<0.0002	0.00012 (J)
10/19/2021						0.00012 (J)	0.0001 (J)		
10/26/2021			<0.0002	<0.0002					
10/27/2021	<0.0002	<0.0002			<0.0002				
5/23/2022				<0.0002					
5/24/2022	<0.0002	<0.0002	<0.0002		<0.0002				
5/31/2022						8E-05 (J)	8E-05 (J)	<0.0002	0.00017 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.02		<0.02					
3/2/2016	<0.02				<0.02		<0.02		<0.02
4/19/2016	<0.02								
4/20/2016		<0.02		<0.02	<0.02		<0.02		<0.02
6/8/2016	<0.02	<0.02		<0.02	<0.02		<0.02		<0.02
8/30/2016									<0.02
8/31/2016	<0.02	<0.02		<0.02	<0.02		<0.02		
10/18/2016									<0.02
10/19/2016	<0.02	<0.02		<0.02	<0.02		<0.02		
1/31/2017	<0.02						<0.02		<0.02
2/1/2017		<0.02		<0.02	<0.02				
5/2/2017	<0.02								<0.02
5/3/2017		<0.02		<0.02	<0.02		<0.02		
6/6/2017	<0.02								<0.02
6/7/2017		<0.02		<0.02	<0.02		<0.02		
1/22/2018							<0.02		
1/23/2018		<0.02		<0.02	<0.02				<0.02
1/24/2018	<0.02								
5/1/2018	<0.02								
5/2/2018		<0.02		0.0384 (J)	<0.02		<0.02		<0.02
11/27/2018									<0.02
11/28/2018	<0.02	<0.02		0.0262	<0.02		<0.02		
1/8/2019			0.0313			0.0148 (J)			
5/29/2019	<0.02			0.0321	<0.02		<0.02		<0.02
5/30/2019		<0.02							
9/30/2019		<0.02		0.0228					
10/1/2019	<0.02		<0.02		<0.02		<0.02		<0.02
10/2/2019						<0.02			
3/30/2020	<0.02								
3/31/2020		<0.02	<0.02	0.022	<0.02	<0.02	<0.02		<0.02
4/1/2020									
9/1/2020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
9/2/2020								<0.02	<0.02
5/11/2021		<0.02							
5/18/2021	<0.02		<0.02		<0.02	<0.02			
5/19/2021				0.00754 (J)			<0.02	<0.02	
5/25/2021									<0.02
10/26/2021							<0.02	0.0484	
10/27/2021		<0.02	<0.02						<0.02
11/1/2021	<0.02				<0.02	<0.02			
11/2/2021				<0.02					
5/23/2022				0.0269	<0.02	<0.02			
5/24/2022	<0.02	<0.02	<0.02				<0.02		
5/25/2022								0.0318	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.02
4/19/2016		<0.02
4/20/2016		
6/8/2016		<0.02
8/30/2016		
8/31/2016		<0.02
10/18/2016		
10/19/2016		<0.02
1/31/2017		<0.02
2/1/2017		
5/2/2017		<0.02
5/3/2017		
6/6/2017		<0.02
6/7/2017		
1/22/2018		<0.02
1/23/2018		
1/24/2018		
5/1/2018		<0.02
5/2/2018		
11/27/2018		0.0169 (J)
11/28/2018		
1/8/2019		
5/29/2019		0.0254
5/30/2019		
9/30/2019		
10/1/2019		0.0248
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.0174 (J)
9/1/2020		
9/2/2020	<0.02	<0.02
5/11/2021		0.00788 (J)
5/18/2021		
5/19/2021		
5/25/2021	<0.02	
10/26/2021	<0.02	0.0117 (J)
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.02	
5/25/2022		0.0118 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.02							<0.02
4/19/2016		<0.02							<0.02
6/8/2016		<0.02							<0.02
8/31/2016		<0.02							<0.02
10/19/2016		<0.02							<0.02
1/31/2017		<0.02							<0.02
5/2/2017		<0.02							<0.02
6/6/2017		<0.02							<0.02
1/23/2018		<0.02							<0.02
1/24/2018									<0.02
5/1/2018		<0.02							<0.02
11/27/2018		<0.02							<0.02
1/8/2019								0.0219	
3/20/2019						<0.02			
5/29/2019		<0.02							<0.02
7/31/2019	<0.02			<0.02			<0.02		
10/1/2019	<0.02	<0.02				<0.02	<0.02		<0.02
10/2/2019				<0.02				<0.02	
3/30/2020								<0.02	
3/31/2020		<0.02							<0.02
4/1/2020				<0.02		<0.02			
8/31/2020									<0.02
9/1/2020	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	
9/2/2020		<0.02	<0.02						
5/17/2021				<0.02					
5/18/2021					<0.02			<0.02	<0.02
5/19/2021		<0.02	<0.02			<0.02			
5/25/2021	<0.02						<0.02		
10/25/2021				<0.02	<0.02	<0.02	<0.02		
10/26/2021	<0.02		<0.02						
11/1/2021		<0.02						<0.02	<0.02
5/23/2022						<0.02			
5/24/2022	<0.02						<0.02	<0.02	<0.02
5/25/2022		<0.02	<0.02	<0.02	<0.02				

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.02	
10/1/2019	<0.02	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.02	
8/31/2020		
9/1/2020	<0.02	<0.02
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.02	<0.02
5/25/2021		
10/25/2021		
10/26/2021	<0.02	
11/1/2021		<0.02
5/23/2022	<0.02	
5/24/2022		<0.02
5/25/2022		

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.02	<0.02
3/2/2016							<0.02		
4/19/2016							<0.02	<0.02	
4/20/2016									<0.02
6/7/2016							<0.02	<0.02	<0.02
8/30/2016								<0.02	<0.02
8/31/2016							<0.02		
10/18/2016									<0.02
10/19/2016							<0.02	<0.02	
1/31/2017							<0.02	<0.02	<0.02
5/2/2017							<0.02	<0.02	
5/3/2017									<0.02
6/6/2017							<0.02	<0.02	
6/7/2017									<0.02
1/24/2018							<0.02	<0.02	<0.02
5/1/2018							<0.02	<0.02	
5/2/2018									<0.02
11/27/2018							<0.02	<0.02	<0.02
11/28/2018									
1/8/2019				0.0183 (J)					
5/29/2019							<0.02	<0.02	<0.02
7/31/2019	<0.02	<0.02							
10/1/2019	<0.02	<0.02					<0.02	<0.02	<0.02
10/2/2019				<0.02					
3/31/2020				<0.02			<0.02	<0.02	<0.02
4/1/2020		<0.02							
9/1/2020	<0.02	<0.02	<0.02				<0.02	<0.02	<0.02
9/2/2020				<0.02	<0.02	<0.02			
5/17/2021			<0.02						
5/18/2021							<0.02	<0.02	
5/24/2021		<0.02			<0.02	<0.02			
5/25/2021	<0.02			<0.02					
10/26/2021	<0.02	<0.02	<0.02	<0.02					
11/1/2021							<0.02	<0.02	
11/2/2021					<0.02	<0.02			<0.02
5/24/2022	<0.02			<0.02					
5/25/2022		<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.02
3/2/2016		
4/19/2016		<0.02
4/20/2016		
6/7/2016		<0.02
8/30/2016		<0.02
8/31/2016		
10/18/2016		
10/19/2016		<0.02
1/31/2017		<0.02
5/2/2017		
5/3/2017		<0.02
6/6/2017		
6/7/2017		<0.02
1/24/2018		<0.02
5/1/2018		
5/2/2018		<0.02
11/27/2018		
11/28/2018		<0.02
1/8/2019	<0.02	
5/29/2019		<0.02
7/31/2019		
10/1/2019		<0.02
10/2/2019	<0.02	
3/31/2020	<0.02	<0.02
4/1/2020		
9/1/2020	<0.02	
9/2/2020		<0.02
5/17/2021		<0.02
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.02	<0.02
5/24/2022		
5/25/2022	<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.02	<0.02	<0.02	<0.02
3/1/2016	<0.02		<0.02		<0.02				
4/19/2016						<0.02	<0.02	<0.02	<0.02
4/20/2016	<0.02		<0.02		<0.02				
6/6/2016						<0.02			<0.02
6/7/2016	<0.02		<0.02				<0.02	<0.02	
6/8/2016					<0.02				
8/30/2016			<0.02			<0.02	<0.02	<0.02	<0.02
8/31/2016	<0.02				<0.02				
10/18/2016			<0.02			<0.02	<0.02	<0.02	<0.02
10/19/2016	<0.02				<0.02				
1/31/2017	<0.02		<0.02			<0.02	<0.02	<0.02	<0.02
2/1/2017					<0.02				
5/2/2017						<0.02	<0.02	<0.02	<0.02
5/3/2017	<0.02		<0.02		<0.02				
6/6/2017						<0.02	<0.02	<0.02	<0.02
6/7/2017	<0.02		<0.02		<0.02				
1/23/2018					<0.02	<0.02	<0.02	<0.02	<0.02
1/24/2018	<0.02		<0.02						
5/1/2018							<0.02	<0.02	<0.02
5/2/2018	0.0108 (J)		<0.02		<0.02	<0.02			
11/26/2018									<0.02
11/27/2018			<0.02			<0.02	<0.02	<0.02	
11/28/2018	<0.02				<0.02				
1/9/2019		0.0662		0.0217					
5/28/2019									<0.02
5/29/2019	<0.02		<0.02			<0.02	<0.02	<0.02	
5/30/2019					<0.02				
9/30/2019	<0.02		<0.02		<0.02				
10/1/2019		<0.02		<0.02					
10/2/2019						<0.02	<0.02	<0.02	<0.02
12/2/2019		<0.02							
3/30/2020	0.0102 (J)	<0.02	<0.02	<0.02					
3/31/2020					<0.02	<0.02	<0.02	<0.02	<0.02
9/2/2020	<0.02	<0.02	<0.02	<0.02	<0.02				
9/8/2020									<0.02
9/9/2020						<0.02	<0.02	<0.02	
5/11/2021			<0.02				<0.02	<0.02	<0.02
5/12/2021						<0.02			
5/18/2021	0.0882	<0.02		<0.02	<0.02				
10/18/2021								<0.02	<0.02
10/19/2021						<0.02	<0.02		
10/26/2021			<0.02	<0.02					
10/27/2021	<0.02	0.00746 (J)			<0.02				
5/23/2022				<0.02					
5/24/2022	<0.02	<0.02	<0.02		<0.02				
5/31/2022						<0.02	<0.02	<0.02	<0.02

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.0005		<0.0005					
3/2/2016	<0.0005				<0.0005		<0.0005		<0.0005
4/19/2016	<0.0005								
4/20/2016		<0.0005		<0.0005	<0.0005		<0.0005		<0.0005
6/8/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		<0.0005
8/30/2016									<0.0005
8/31/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		
10/18/2016									<0.0005
10/19/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		
1/31/2017	<0.0005						<0.0005		<0.0005
2/1/2017		<0.0005		<0.0005	<0.0005				
5/2/2017	<0.0005								<0.0005
5/3/2017		<0.0005		<0.0005	<0.0005		<0.0005		
6/6/2017	<0.0005								<0.0005
6/7/2017		<0.0005		<0.0005	<0.0005		<0.0005		
1/22/2018							<0.0005		
1/23/2018		<0.0005		<0.0005	<0.0005				<0.0005
1/24/2018	<0.0005								
5/1/2018	<0.0005								
5/2/2018		<0.0005		<0.0005	<0.0005		<0.0005		<0.0005
11/27/2018									<0.0005
11/28/2018	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		
1/8/2019			<0.0005			<0.0005			
5/29/2019	<0.0005			<0.0005	<0.0005		<0.0005		<0.0005
5/30/2019		<0.0005							
7/31/2019		<0.0005							
9/30/2019		<0.0005		<0.0005					
10/1/2019	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005
10/2/2019						<0.0005			
3/30/2020	<0.0005								
3/31/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
4/1/2020									
9/1/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
9/2/2020								<0.0005	<0.0005
5/11/2021		<0.0005							
5/18/2021	<0.0005		<0.0005		<0.0005	<0.0005			
5/19/2021				<0.0005			<0.0005	<0.0005	
5/25/2021									<0.0005
10/26/2021							<0.0005	<0.0005	
10/27/2021		<0.0005	<0.0005						<0.0005
11/1/2021	<0.0005				<0.0005	<0.0005			
11/2/2021				<0.0005					
5/23/2022				<0.0005	<0.0005	<0.0005			
5/24/2022	<0.0005	<0.0005	<0.0005				<0.0005		
5/25/2022								<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.0005
4/19/2016		<0.0005
4/20/2016		
6/8/2016		<0.0005
8/30/2016		
8/31/2016		<0.0005
10/18/2016		
10/19/2016		<0.0005
1/31/2017		<0.0005
2/1/2017		
5/2/2017		<0.0005
5/3/2017		
6/6/2017		<0.0005
6/7/2017		
1/22/2018		<0.0005
1/23/2018		
1/24/2018		
5/1/2018		<0.0005
5/2/2018		
11/27/2018		<0.0005
11/28/2018		
1/8/2019		
5/29/2019		<0.0005
5/30/2019		
7/31/2019		
9/30/2019		
10/1/2019		<0.0005
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.0005
9/1/2020		
9/2/2020	<0.0005	<0.0005
5/11/2021		<0.0005
5/18/2021		
5/19/2021		
5/25/2021	<0.0005	
10/26/2021	<0.0005	<0.0005
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.0005	
5/25/2022		<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.0005							<0.0005
4/19/2016		<0.0005							<0.0005
6/8/2016		<0.0005							<0.0005
8/31/2016		<0.0005							<0.0005
10/19/2016		<0.0005							<0.0005
1/31/2017		<0.0005							<0.0005
5/2/2017		<0.0005							<0.0005
6/6/2017		<0.0005							<0.0005
1/23/2018		<0.0005							<0.0005
1/24/2018									<0.0005
5/1/2018		<0.0005							<0.0005
11/27/2018		<0.0005							<0.0005
1/8/2019								<0.0005	
3/20/2019						<0.0005			
5/29/2019		<0.0005							<0.0005
7/31/2019	<0.0005			<0.0005			<0.0005		
10/1/2019	<0.0005	<0.0005				<0.0005	<0.0005		<0.0005
10/2/2019				<0.0005				<0.0005	
3/30/2020								<0.0005	
3/31/2020		<0.0005							<0.0005
4/1/2020				<0.0005		<0.0005			
8/31/2020									<0.0005
9/1/2020	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/2/2020		<0.0005	<0.0005						
5/17/2021				<0.0005					
5/18/2021					<0.0005			<0.0005	<0.0005
5/19/2021		<0.0005	<0.0005			<0.0005			
5/25/2021	<0.0005						<0.0005		
10/25/2021				<0.0005	<0.0005	<0.0005	<0.0005		
10/26/2021	<0.0005		<0.0005						
11/1/2021		<0.0005						<0.0005	<0.0005
5/23/2022						<0.0005			
5/24/2022	<0.0005						<0.0005	<0.0005	<0.0005
5/25/2022		<0.0005	<0.0005	<0.0005	<0.0005				

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.0005	
10/1/2019	<0.0005	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.0005	
8/31/2020		
9/1/2020	<0.0005	<0.0005
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.0005	<0.0005
5/25/2021		
10/25/2021		
10/26/2021	<0.0005	
11/1/2021		<0.0005
5/23/2022	<0.0005	
5/24/2022		<0.0005
5/25/2022		

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.0005	<0.0005
3/2/2016							<0.0005		
4/19/2016							<0.0005	<0.0005	
4/20/2016									<0.0005
6/7/2016							<0.0005	<0.0005	<0.0005
8/30/2016								<0.0005	<0.0005
8/31/2016							<0.0005		
10/18/2016									<0.0005
10/19/2016							<0.0005	<0.0005	
1/31/2017							<0.0005	<0.0005	<0.0005
5/2/2017							<0.0005	<0.0005	
5/3/2017									<0.0005
6/6/2017							<0.0005	<0.0005	
6/7/2017									<0.0005
1/24/2018							<0.0005	<0.0005	<0.0005
5/1/2018							<0.0005	<0.0005	
5/2/2018									<0.0005
11/27/2018							<0.0005	<0.0005	<0.0005
11/28/2018									
1/8/2019				<0.0005					
5/29/2019							<0.0005	<0.0005	<0.0005
7/31/2019	<0.0005	<0.0005							
10/1/2019	<0.0005	<0.0005					<0.0005	<0.0005	<0.0005
10/2/2019				<0.0005					
3/31/2020				<0.0005			<0.0005	<0.0005	<0.0005
4/1/2020		<0.0005							
9/1/2020	<0.0005	<0.0005	<0.0005				<0.0005	<0.0005	<0.0005
9/2/2020				<0.0005	<0.0005	<0.0005			
5/17/2021			<0.0005						
5/18/2021							<0.0005	<0.0005	
5/24/2021		<0.0005			<0.0005	<0.0005			
5/25/2021	<0.0005			<0.0005					
10/26/2021	<0.0005	<0.0005	<0.0005	<0.0005					
11/1/2021							<0.0005	<0.0005	
11/2/2021					<0.0005	<0.0005			<0.0005
5/24/2022	<0.0005			<0.0005					
5/25/2022		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.0005
3/2/2016		
4/19/2016		<0.0005
4/20/2016		
6/7/2016		<0.0005
8/30/2016		<0.0005
8/31/2016		
10/18/2016		
10/19/2016		<0.0005
1/31/2017		<0.0005
5/2/2017		
5/3/2017		<0.0005
6/6/2017		
6/7/2017		<0.0005
1/24/2018		<0.0005
5/1/2018		
5/2/2018		<0.0005
11/27/2018		
11/28/2018		<0.0005
1/8/2019	<0.0005	
5/29/2019		<0.0005
7/31/2019		
10/1/2019		<0.0005
10/2/2019	<0.0005	
3/31/2020	<0.0005	<0.0005
4/1/2020		
9/1/2020	<0.0005	
9/2/2020		<0.0005
5/17/2021		<0.0005
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.0005	<0.0005
5/24/2022		
5/25/2022	<0.0005	<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.0005	<0.0005	<0.0005	<0.0005
3/1/2016	<0.0005		<0.0005		<0.0005				
4/19/2016						<0.0005	<0.0005	<0.0005	<0.0005
4/20/2016	<0.0005		<0.0005		<0.0005				
6/6/2016						<0.0005			<0.0005
6/7/2016	<0.0005		<0.0005				<0.0005	<0.0005	
6/8/2016					<0.0005				
8/30/2016			<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
8/31/2016	<0.0005				<0.0005				
10/18/2016			<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
10/19/2016	<0.0005				<0.0005				
1/31/2017	<0.0005		<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
2/1/2017					<0.0005				
5/2/2017						<0.0005	<0.0005	<0.0005	<0.0005
5/3/2017	<0.0005		<0.0005		<0.0005				
6/6/2017						<0.0005	<0.0005	<0.0005	<0.0005
6/7/2017	<0.0005		<0.0005		<0.0005				
1/23/2018					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
1/24/2018	<0.0005		<0.0005						
5/1/2018							<0.0005	<0.0005	<0.0005
5/2/2018	<0.0005		<0.0005		<0.0005	<0.0005			
11/26/2018									<0.0005
11/27/2018			<0.0005			<0.0005	<0.0005	<0.0005	
11/28/2018	<0.0005				<0.0005				
1/9/2019		<0.0005		<0.0005					
5/28/2019									<0.0005
5/29/2019	<0.0005		<0.0005			<0.0005	<0.0005	<0.0005	
5/30/2019					<0.0005				
9/30/2019	<0.0005		<0.0005		<0.0005				
10/1/2019		<0.0005		<0.0005					
10/2/2019						<0.0005	<0.0005	<0.0005	<0.0005
3/30/2020	<0.0005	<0.0005	<0.0005	<0.0005					
3/31/2020					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/2/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005				
9/8/2020									<0.0005
9/9/2020						<0.0005	<0.0005	<0.0005	
5/11/2021			<0.0005				<0.0005	<0.0005	<0.0005
5/12/2021						<0.0005			
5/18/2021	<0.0005	<0.0005		<0.0005	<0.0005				
10/18/2021								<0.0005	<0.0005
10/19/2021						<0.0005	<0.0005		
10/26/2021			<0.0005	<0.0005					
10/27/2021	<0.0005	<0.0005			<0.0005				
5/23/2022				<0.0005					
5/24/2022	<0.0005	<0.0005	<0.0005		<0.0005				
5/31/2022						<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.0002		<0.0002					
3/2/2016	<0.0002				<0.0002		<0.0002		<0.0002
4/19/2016	<0.0002								
4/20/2016		<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
6/8/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
8/30/2016									<0.0002
8/31/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
10/18/2016									<0.0002
10/19/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
1/31/2017	<0.0002						<0.0002		<0.0002
2/1/2017		<0.0002		<0.0002	<0.0002				
5/2/2017	<0.0002								<0.0002
5/3/2017		<0.0002		<0.0002	<0.0002		<0.0002		
6/6/2017	<0.0002								<0.0002
6/7/2017		<0.0002		<0.0002	<0.0002		<0.0002		
1/22/2018							<0.0002		
1/23/2018		<0.0002		<0.0002	<0.0002				<0.0002
1/24/2018	<0.0002								
5/1/2018	<0.0002								
5/2/2018		<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
11/27/2018									<0.0002
11/28/2018	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
1/8/2019			0.00335 (J)			0.00303 (J)			
5/29/2019	<0.0002			<0.0002	<0.0002		<0.0002		<0.0002
5/30/2019		<0.0002							
9/30/2019		<0.0002		<0.0002					
10/1/2019	<0.0002		<0.0002		<0.0002		<0.0002		<0.0002
10/2/2019						<0.0002			
3/30/2020	<0.0002								
3/31/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
4/1/2020									
9/1/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/2/2020								<0.0002	<0.0002
5/11/2021		<0.0002							
5/18/2021	0.000106 (J)		0.000148 (J)		0.000947	0.00106			
5/19/2021				0.00652			0.000437	0.000642	
5/25/2021									0.000701
10/26/2021							0.00043	0.00135	
10/27/2021		<0.0002	0.00014 (J)						0.00053
11/1/2021	8E-05 (J)				0.00099	0.00118			
11/2/2021				0.00161					
5/23/2022				0.00141	0.00109	0.00123			
5/24/2022	<0.0002	<0.0002	0.00011 (J)				0.00356		
5/25/2022								0.0008	0.00052

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.00238 (J)
4/19/2016		0.00203 (J)
4/20/2016		
6/8/2016		<0.0002
8/30/2016		
8/31/2016		<0.0002
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
2/1/2017		
5/2/2017		0.00201 (J)
5/3/2017		
6/6/2017		<0.0002
6/7/2017		
1/22/2018		0.00211 (J)
1/23/2018		
1/24/2018		
5/1/2018		<0.0002
5/2/2018		
11/27/2018		<0.0002
11/28/2018		
1/8/2019		
5/29/2019		<0.0002
5/30/2019		
9/30/2019		
10/1/2019		<0.0002
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.0002
9/1/2020		
9/2/2020	0.00229 (J)	0.00209 (J)
5/11/2021		0.00171
5/18/2021		
5/19/2021		
5/25/2021	0.00135	
10/26/2021	0.0012	0.00206
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.0031	
5/25/2022		0.0018

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.0002							<0.0002
4/19/2016		<0.0002							<0.0002
6/8/2016		<0.0002							<0.0002
8/31/2016		<0.0002							<0.0002
10/19/2016		<0.0002							<0.0002
1/31/2017		<0.0002							<0.0002
5/2/2017		<0.0002							<0.0002
6/6/2017		<0.0002							<0.0002
1/23/2018		<0.0002							<0.0002
1/24/2018									<0.0002
5/1/2018		<0.0002							<0.0002
11/27/2018		<0.0002							<0.0002
1/8/2019								<0.0002	
3/20/2019						<0.0002			
5/29/2019		<0.0002							<0.0002
7/31/2019	<0.0002			<0.0002			<0.0002		
10/1/2019	<0.0002	<0.0002				<0.0002	<0.0002		<0.0002
10/2/2019				<0.0002				<0.0002	
3/30/2020								<0.0002	
3/31/2020		<0.0002							<0.0002
4/1/2020				<0.0002		<0.0002			
8/31/2020									<0.0002
9/1/2020	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/2/2020		<0.0002	<0.0002						
5/17/2021				0.000469					
5/18/2021					0.000571			0.00018 (J)	<0.0002
5/19/2021		0.000136 (J)	<0.0002			0.00025			
5/25/2021	0.000106 (J)						0.000124 (J)		
10/25/2021				0.00078	0.00088	0.00025	8E-05 (J)		
10/26/2021	0.00011 (J)		<0.0002						
11/1/2021		<0.0002						0.00013 (J)	<0.0002
5/23/2022						0.00036			
5/24/2022	<0.0002						<0.0002	0.00011 (J)	<0.0002
5/25/2022		<0.0002	<0.0002	0.00045	0.00043				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.0002	
10/1/2019	<0.0002	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.0002	
8/31/2020		
9/1/2020	<0.0002	<0.0002
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.000503	0.00155
5/25/2021		
10/25/2021		
10/26/2021	0.00048	
11/1/2021		0.00181
5/23/2022	0.00054	
5/24/2022		0.00164
5/25/2022		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.0002	<0.0002
3/2/2016							<0.0002		
4/19/2016							<0.0002	<0.0002	
4/20/2016									<0.0002
6/7/2016							<0.0002	<0.0002	<0.0002
8/30/2016								<0.0002	<0.0002
8/31/2016							<0.0002		
10/18/2016									<0.0002
10/19/2016							<0.0002	<0.0002	
1/31/2017							<0.0002	<0.0002	<0.0002
5/2/2017							<0.0002	<0.0002	
5/3/2017									<0.0002
6/6/2017							<0.0002	<0.0002	
6/7/2017									<0.0002
1/24/2018							<0.0002	<0.0002	<0.0002
5/1/2018							<0.0002	<0.0002	
5/2/2018									<0.0002
11/27/2018							<0.0002	<0.0002	<0.0002
11/28/2018									
1/8/2019				0.00399 (J)					
5/29/2019							<0.0002	<0.0002	<0.0002
7/31/2019	0.00426 (J)	<0.0002							
10/1/2019	<0.0002	<0.0002					<0.0002	<0.0002	<0.0002
10/2/2019				<0.0002					
3/31/2020				<0.0002			<0.0002	<0.0002	<0.0002
4/1/2020		<0.0002							
9/1/2020	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002
9/2/2020				<0.0002	<0.0002	<0.0002			
5/17/2021			0.00147						
5/18/2021							<0.0002	<0.0002	
5/24/2021		0.00069			0.000102 (J)	9.23E-05 (J)			
5/25/2021	0.00137			0.000869					
10/26/2021	0.00136	0.00035	0.00124	0.00096					
11/1/2021							<0.0002	<0.0002	
11/2/2021					0.00014 (J)	<0.0002			0.00012 (J)
5/24/2022	0.00145			0.00092					
5/25/2022		0.00013 (J)	0.00142		0.0001 (J)	<0.0002	<0.0002	<0.0002	0.00011 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.0002
3/2/2016		
4/19/2016		<0.0002
4/20/2016		
6/7/2016		<0.0002
8/30/2016		<0.0002
8/31/2016		
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
5/2/2017		
5/3/2017		<0.0002
6/6/2017		
6/7/2017		<0.0002
1/24/2018		<0.0002
5/1/2018		
5/2/2018		<0.0002
11/27/2018		
11/28/2018		<0.0002
1/8/2019	<0.0002	
5/29/2019		<0.0002
7/31/2019		
10/1/2019		<0.0002
10/2/2019	<0.0002	
3/31/2020	<0.0002	<0.0002
4/1/2020		
9/1/2020	<0.0002	
9/2/2020		<0.0002
5/17/2021		0.000117 (J)
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	8E-05 (J)	0.00011 (J)
5/24/2022		
5/25/2022	<0.0002	0.00033

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.0002	<0.0002	<0.0002	<0.0002
3/1/2016	<0.0002		<0.0002		<0.0002				
4/19/2016						<0.0002	<0.0002	<0.0002	<0.0002
4/20/2016	<0.0002		<0.0002		<0.0002				
6/6/2016						<0.0002			<0.0002
6/7/2016	<0.0002		<0.0002				<0.0002	<0.0002	
6/8/2016					<0.0002				
8/30/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
8/31/2016	<0.0002				<0.0002				
10/18/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
10/19/2016	<0.0002				<0.0002				
1/31/2017	<0.0002		<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/1/2017					<0.0002				
5/2/2017						<0.0002	<0.0002	<0.0002	<0.0002
5/3/2017	<0.0002		<0.0002		<0.0002				
6/6/2017						<0.0002	<0.0002	<0.0002	<0.0002
6/7/2017	<0.0002		<0.0002		<0.0002				
1/23/2018					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2018	<0.0002		<0.0002						
5/1/2018							<0.0002	<0.0002	<0.0002
5/2/2018	<0.0002		<0.0002		<0.0002	<0.0002			
11/26/2018									<0.0002
11/27/2018			<0.0002			<0.0002	<0.0002	<0.0002	
11/28/2018	<0.0002				<0.0002				
1/9/2019		0.00511 (J)		0.00243 (J)					
5/28/2019									<0.0002
5/29/2019	<0.0002		<0.0002			<0.0002	<0.0002	<0.0002	
5/30/2019					<0.0002				
9/30/2019	<0.0002		<0.0002		<0.0002				
10/1/2019		<0.0002		<0.0002					
10/2/2019						<0.0002	<0.0002	<0.0002	<0.0002
3/30/2020	<0.0002	<0.0002	<0.0002	<0.0002					
3/31/2020					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/2/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
9/8/2020									<0.0002
9/9/2020						<0.0002	<0.0002	<0.0002	
5/11/2021			0.000321				<0.0002	<0.0002	<0.0002
5/12/2021						<0.0002			
5/18/2021	0.000214	0.00021		0.000363	0.00022				
10/18/2021								<0.0002	<0.0002
10/19/2021						<0.0002	<0.0002		
10/26/2021			0.00019 (J)	0.00028					
10/27/2021	0.00018 (J)	0.00046			0.00021				
5/23/2022				0.00029					
5/24/2022	0.00018 (J)	0.00074	0.00023		0.00024				
5/31/2022						<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: pH, field (SU) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		6.33		6.34					
3/2/2016	5.78				6.16		6.1		6.08
4/19/2016	5.8								
4/20/2016		6.31		6.31	6.17		6.14		6.04
6/8/2016	5.83	6.34		6.33	6.25		6.11		6.13
8/30/2016									6.08
8/31/2016	5.85	6.35		6.29	6.23		6.1		
10/18/2016									6.13
10/19/2016	5.87	6.35		6.26	6.2		6.1		
1/31/2017	5.83						6.07		6.06
2/1/2017		6.27		6.22	6.08				
3/21/2017	5.83								
3/22/2017		6.29		6.22	6.12		6.07		6.09
5/2/2017	5.73								5.94
5/3/2017		6.23		6.15	6.12		6.1		
6/6/2017	5.83								6.1
6/7/2017		6.27		6.21	6.13		6.07		
9/13/2017	5.91			6.26	6.19		6.12		6.11
9/14/2017		6.27							
1/22/2018							6.12		
1/23/2018		6.32		6.28	6.17				6.12
1/24/2018	5.9								
5/1/2018	5.83								
5/2/2018		6.36		6.33	6.15		6.13		6.13
8/28/2018	5.78	6.31							
8/29/2018				6.3	6.19		6.1		6.14
11/27/2018									6.07
11/28/2018	5.82	6.32		6.28	6.11		6.04		
1/8/2019			6.5			6.48			
5/29/2019	5.82			6.24	6.13		6.01		6.07
5/30/2019		6.23							
9/30/2019		6.11		5.85					
10/1/2019	5.47		6.05		6		6.02		6.01
10/2/2019						5.9			
3/30/2020	5.79								
3/31/2020		6.37	6.38	6.26	6.21	6.33	5.98		5.76
4/1/2020									
9/1/2020	5.89	6.33	6.34	5.87	6.19	6.2	5.82		
9/2/2020								6.23	5.8
5/11/2021		6.4							
5/18/2021	5.86		6.34		5.58	5.92			
5/19/2021				6.33			5.79	6.2	
5/25/2021									5.82
10/26/2021							5.69	6.81	
10/27/2021		5.91	6.1						6.41
11/1/2021	6.01				5.75	6.09			
11/2/2021				5.84					
5/23/2022				6.32	6.12	6.22			
5/24/2022	5.44	5.81	5.77				5.5		
5/25/2022								6.3	6.14

Time Series

Constituent: pH, field (SU) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		6.61
4/19/2016		6.75
4/20/2016		
6/8/2016		6.63
8/30/2016		
8/31/2016		6.71
10/18/2016		
10/19/2016		6.66
1/31/2017		6.73
2/1/2017		
3/21/2017		6.62
3/22/2017		
5/2/2017		6.49
5/3/2017		
6/6/2017		6.7
6/7/2017		
9/13/2017		6.66
9/14/2017		
1/22/2018		6.73
1/23/2018		
1/24/2018		
5/1/2018		6.62
5/2/2018		
8/28/2018		
8/29/2018		6.68
11/27/2018		6.58
11/28/2018		
1/8/2019		
5/29/2019		6.63
5/30/2019		
9/30/2019		
10/1/2019		6.2
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		6.72
9/1/2020		
9/2/2020	7.02	6.57
5/11/2021		6.76
5/18/2021		
5/19/2021		
5/25/2021	7.2	
10/26/2021	6.91	6.7
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	6.71	
5/25/2022		6.68

Time Series

Constituent: pH, field (SU) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		5.79							6.08
4/19/2016		5.78							5.92
6/8/2016		5.8							5.9
8/31/2016		5.83							5.87
10/19/2016		5.81							5.82
1/31/2017		5.84							5.87
3/21/2017		5.79							5.85
5/2/2017		5.68							5.61
6/6/2017		5.8							5.82
9/12/2017									5.61
9/13/2017		5.86							
1/23/2018		5.86							
1/24/2018									5.83
5/1/2018		5.85							5.8
8/28/2018									5.56
8/29/2018		5.87							
11/27/2018		5.76							5.71
1/8/2019							6.38		
3/20/2019					6.19				
5/29/2019		5.76							5.7
7/31/2019	5.37			6.64			6.21		
10/1/2019	5.68	5.23				6.26	6.33		4.97
10/2/2019				6.58				5.27	
3/30/2020								5.65	
3/31/2020		5.75							5.71
4/1/2020				6.52		6.48			
8/31/2020									5.57
9/1/2020	5.91			6.56	6.49	6.15	6.31	5.62	
9/2/2020		5.47	5.23						
5/17/2021				6.35					
5/18/2021					6.55			5.55	5.83
5/19/2021		5.8	5.24			6.23			
5/25/2021	5.6						6.1		
10/25/2021				6.48	6.53	6.76	6.13		
10/26/2021	5.93		5.26						
11/1/2021		5.36						5.76	5.2
5/23/2022						6.24			
5/24/2022	5.7						5.8	4.9	4.78
5/25/2022		5.74	5.26	6.21	6.34				

Time Series

Constituent: pH, field (SU) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
3/21/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
1/23/2018		
1/24/2018		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	6.22	
10/1/2019	6.24	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	6.45	
8/31/2020		
9/1/2020	6.15	6.03
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	6.17	6.44
5/25/2021		
10/25/2021		
10/26/2021	6.49	
11/1/2021		6
5/23/2022	6.15	
5/24/2022		6.28
5/25/2022		

Time Series

Constituent: pH, field (SU) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								5.19	5.99
3/2/2016							5.14		
4/19/2016							5.06	5.06	
4/20/2016									5.96
6/7/2016							5.13	4.7	6.03
8/30/2016								4.77	6
8/31/2016							5.11		
10/18/2016									5.99
10/19/2016							5.05	4.67	
1/31/2017							5.14	4.42	5.96
3/21/2017							5.13	4.45	
3/22/2017									6.01
5/2/2017							4.85	4.46	
5/3/2017									5.99
6/6/2017							5.15	4.89	
6/7/2017									6.01
9/12/2017							4.96	4.71	
9/14/2017									6
1/24/2018							5.22	5.03	5.98
5/1/2018							5.11	4.44	
5/2/2018									5.99
8/28/2018							4.92	4.85	
8/29/2018									6.03
11/27/2018							5.05	4.78	6.01
11/28/2018									
1/8/2019				6.51					
5/29/2019							5.05	4.65	5.93
7/31/2019	6.54	6.08							
10/1/2019	6.6	6.03					4.37	4.28	5.47
10/2/2019				6.21					
3/31/2020				6.23			5.08	4.69	6.01
4/1/2020		6.44							
9/1/2020	6.48	6.14	7.98				4.24	4.23	5.93
9/2/2020				6.01	5.39	5.32			
5/17/2021			7.87						
5/18/2021							4.93	4.17	
5/24/2021		6.19			4.12	5.24			
5/25/2021	6.44			6.16					
10/26/2021	6.86	6.54	8.31	6.2					
11/1/2021							4.94	5.18	
11/2/2021					5.01	5.13			6.36
5/24/2022	6.57			6.22					
5/25/2022		5.92	7.44		5.23	5.45	4.64	4.6	5.99

Time Series

Constituent: pH, field (SU) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		5.59
3/2/2016		
4/19/2016		5.55
4/20/2016		
6/7/2016		5.43
8/30/2016		5.39
8/31/2016		
10/18/2016		
10/19/2016		5.31
1/31/2017		5.26
3/21/2017		
3/22/2017		5.32
5/2/2017		
5/3/2017		5.35
6/6/2017		
6/7/2017		5.32
9/12/2017		
9/14/2017		5.29
1/24/2018		5.32
5/1/2018		
5/2/2018		5.33
8/28/2018		
8/29/2018		5.41
11/27/2018		
11/28/2018		5.46
1/8/2019	6.07	
5/29/2019		5.31
7/31/2019		
10/1/2019		4.7
10/2/2019	5.9	
3/31/2020	6.05	5.22
4/1/2020		
9/1/2020	5.7	
9/2/2020		5.16
5/17/2021		5.21
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	6.35	5.59
5/24/2022		
5/25/2022	5.88	4.57

Time Series

Constituent: pH, field (SU) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						4.62	4.79	4.96	4.74
3/1/2016	6.36		6.21		6.26				
4/19/2016						4.74	4.84	4.94	4.86
4/20/2016	6.31		6.22		6.26				
6/6/2016						4.65			4.88
6/7/2016	6.3		6.26				4.81	4.96	
6/8/2016					6.25				
8/30/2016			6.21			4.64	4.76	4.92	4.91
8/31/2016	6.31				6.29				
10/18/2016			6.21			4.74	4.84	4.98	4.95
10/19/2016	6.23				6.22				
1/31/2017	6.26		6.17			4.54	4.6	4.74	4.71
2/1/2017					6.24				
3/20/2017						4.67	4.71	4.9	4.83
3/22/2017	6.32		6.22		6.28				
5/2/2017						4.79	4.8	4.98	4.93
5/3/2017	6.29		6.22		6.17				
6/6/2017						4.76	4.72	4.94	4.9
6/7/2017	6.27		6.21		6.24				
9/12/2017									4.82
9/13/2017						4.81	4.71	4.93	
9/14/2017	6.25		6.18		6.24				
1/23/2018					6.3	4.79	4.67	4.91	4.85
1/24/2018	6.35		6.16						
5/1/2018							4.61	4.87	4.8
5/2/2018	6.29		6.17		6.31	4.62			
8/28/2018					6.28				
8/29/2018			6.21						
11/26/2018									4.88
11/27/2018			6.18			4.73	4.72	4.94	
11/28/2018	6.33				6.32				
1/9/2019		7.12		6.38					
5/28/2019									4.73
5/29/2019	6.18		6.11			4.65	4.58	4.8	
5/30/2019					6.14				
9/30/2019	6.36		6.19		6.07				
10/1/2019		6.67		6.16					
10/2/2019						4.57	4.43	4.52	4.67
3/30/2020	6.32	6.69	6.2	6.2					
3/31/2020					6.31	4.64	4.6	4.4	4.51
9/2/2020	6.25	6.49	5.89	5.79	5.97				
9/8/2020									4.75
9/9/2020						4.65	4.67	4.76	
5/11/2021			6.25				4.29	4.53	4.67
5/12/2021						4.74			
5/18/2021	6.4	6.53		6.33	6.3				
10/18/2021								4.55	4.38
10/19/2021						4.67	4.6		
10/26/2021			6.26	6.26					
10/27/2021	6.35	6.78			6.13				
5/23/2022				6.08					
5/24/2022	6.32	6.92	5.6		6.03				

Time Series

Constituent: pH, field (SU) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
5/31/2022						3.89	3.31	3.54	3.97

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.00102		<0.00102					
3/2/2016	<0.00102				<0.00102		<0.00102		<0.00102
4/19/2016	<0.00102								
4/20/2016		<0.00102		<0.00102	<0.00102		<0.00102		<0.00102
6/8/2016	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		<0.00102
8/30/2016									<0.00102
8/31/2016	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
10/18/2016									<0.00102
10/19/2016	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
1/31/2017	<0.00102						<0.00102		<0.00102
2/1/2017		<0.00102		<0.00102	<0.00102				
5/2/2017	<0.00102								<0.00102
5/3/2017		<0.00102		<0.00102	<0.00102		<0.00102		
6/6/2017	<0.00102								<0.00102
6/7/2017		<0.00102		<0.00102	<0.00102		<0.00102		
1/22/2018							<0.00102		
1/23/2018		<0.00102		<0.00102	<0.00102				<0.00102
1/24/2018	<0.00102								
5/1/2018	<0.00102								
5/2/2018		<0.00102		<0.00102	<0.00102		<0.00102		<0.00102
11/27/2018									<0.00102
11/28/2018	<0.00102	<0.00102		<0.00102	<0.00102		<0.00102		
1/8/2019			<0.00102			<0.00102			
5/29/2019	<0.00102			<0.00102	<0.00102		<0.00102		<0.00102
5/30/2019		<0.00102							
9/30/2019		<0.00102		<0.00102					
10/1/2019	<0.00102		<0.00102		<0.00102		<0.00102		<0.00102
10/2/2019						<0.00102			
3/30/2020	<0.00102								
3/31/2020		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		<0.00102
4/1/2020									
9/1/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102		
9/2/2020								<0.00102	<0.00102
5/11/2021		<0.00102							
5/18/2021	<0.00102		<0.00102		<0.00102	<0.00102			
5/19/2021				<0.00102			<0.00102	<0.00102	
5/25/2021									<0.00102
10/26/2021							<0.00102	<0.00102	
10/27/2021		<0.00102	<0.00102						<0.00102
11/1/2021	<0.00102				<0.00102	<0.00102			
11/2/2021				<0.00102					
5/23/2022				<0.00102	<0.00102	<0.00102			
5/24/2022	<0.00102	<0.00102	<0.00102				0.00056 (J)		
5/25/2022								<0.00102	<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.00102
4/19/2016		<0.00102
4/20/2016		
6/8/2016		<0.00102
8/30/2016		
8/31/2016		<0.00102
10/18/2016		
10/19/2016		<0.00102
1/31/2017		<0.00102
2/1/2017		
5/2/2017		<0.00102
5/3/2017		
6/6/2017		<0.00102
6/7/2017		
1/22/2018		<0.00102
1/23/2018		
1/24/2018		
5/1/2018		<0.00102
5/2/2018		
11/27/2018		<0.00102
11/28/2018		
1/8/2019		
5/29/2019		<0.00102
5/30/2019		
9/30/2019		
10/1/2019		<0.00102
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.00102
9/1/2020		
9/2/2020	<0.00102	<0.00102
5/11/2021		<0.00102
5/18/2021		
5/19/2021		
5/25/2021	<0.00102	
10/26/2021	<0.00102	<0.00102
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.00102	
5/25/2022		<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.00102							<0.00102
4/19/2016		<0.00102							<0.00102
6/8/2016		<0.00102							<0.00102
8/31/2016		<0.00102							<0.00102
10/19/2016		<0.00102							<0.00102
1/31/2017		<0.00102							<0.00102
5/2/2017		<0.00102							<0.00102
6/6/2017		<0.00102							<0.00102
1/23/2018		<0.00102							<0.00102
1/24/2018									<0.00102
5/1/2018		<0.00102							<0.00102
11/27/2018		<0.00102							<0.00102
1/8/2019								<0.00102	
3/20/2019						<0.00102			
5/29/2019		<0.00102							<0.00102
7/31/2019	<0.00102			<0.00102			<0.00102		
10/1/2019	<0.00102	<0.00102				<0.00102	<0.00102		<0.00102
10/2/2019				<0.00102				<0.00102	
3/30/2020								<0.00102	
3/31/2020		<0.00102							<0.00102
4/1/2020				<0.00102		<0.00102			
8/31/2020									<0.00102
9/1/2020	<0.00102			<0.00102	<0.00102	<0.00102	<0.00102	<0.00102	
9/2/2020		<0.00102	<0.00102						
5/17/2021				<0.00102					
5/18/2021					<0.00102			<0.00102	<0.00102
5/19/2021		<0.00102	<0.00102			<0.00102			
5/25/2021	<0.00102						<0.00102		
10/25/2021				<0.00102	<0.00102	<0.00102	<0.00102		
10/26/2021	<0.00102		<0.00102						
11/1/2021		<0.00102						<0.00102	<0.00102
5/23/2022						<0.00102			
5/24/2022	<0.00102						<0.00102	<0.00102	<0.00102
5/25/2022		<0.00102	<0.00102	<0.00102	<0.00102				

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.00102	
10/1/2019	<0.00102	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.00102	
8/31/2020		
9/1/2020	<0.00102	<0.00102
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.00102	<0.00102
5/25/2021		
10/25/2021		
10/26/2021	<0.00102	
11/1/2021		<0.00102
5/23/2022	0.00054 (J)	
5/24/2022		<0.00102
5/25/2022		

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.00102	<0.00102
3/2/2016							<0.00102		
4/19/2016							<0.00102	<0.00102	
4/20/2016									<0.00102
6/7/2016							<0.00102	<0.00102	<0.00102
8/30/2016								<0.00102	<0.00102
8/31/2016							<0.00102		
10/18/2016									<0.00102
10/19/2016							<0.00102	<0.00102	
1/31/2017							<0.00102	<0.00102	<0.00102
5/2/2017							<0.00102	<0.00102	
5/3/2017									<0.00102
6/6/2017							<0.00102	<0.00102	
6/7/2017									<0.00102
1/24/2018							<0.00102	<0.00102	<0.00102
5/1/2018							<0.00102	<0.00102	
5/2/2018									<0.00102
11/27/2018							<0.00102	<0.00102	<0.00102
11/28/2018									
1/8/2019				<0.00102					
5/29/2019							<0.00102	<0.00102	<0.00102
7/31/2019	<0.00102	<0.00102							
10/1/2019	<0.00102	<0.00102					<0.00102	<0.00102	<0.00102
10/2/2019				<0.00102					
3/31/2020				<0.00102			<0.00102	<0.00102	<0.00102
4/1/2020		<0.00102							
9/1/2020	<0.00102	<0.00102	<0.00102				<0.00102	<0.00102	<0.00102
9/2/2020				<0.00102	<0.00102	<0.00102			
5/17/2021			<0.00102						
5/18/2021							<0.00102	<0.00102	
5/24/2021		<0.00102			<0.00102	<0.00102			
5/25/2021	<0.00102			<0.00102					
10/26/2021	<0.00102	<0.00102	<0.00102	<0.00102					
11/1/2021							<0.00102	<0.00102	
11/2/2021					<0.00102	<0.00102			<0.00102
5/24/2022	<0.00102			<0.00102					
5/25/2022		<0.00102	<0.00102		<0.00102	<0.00102	<0.00102	<0.00102	<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.00102
3/2/2016		
4/19/2016		<0.00102
4/20/2016		
6/7/2016		<0.00102
8/30/2016		<0.00102
8/31/2016		
10/18/2016		
10/19/2016		<0.00102
1/31/2017		<0.00102
5/2/2017		
5/3/2017		<0.00102
6/6/2017		
6/7/2017		<0.00102
1/24/2018		<0.00102
5/1/2018		
5/2/2018		<0.00102
11/27/2018		
11/28/2018		<0.00102
1/8/2019	<0.00102	
5/29/2019		<0.00102
7/31/2019		
10/1/2019		<0.00102
10/2/2019	<0.00102	
3/31/2020	<0.00102	<0.00102
4/1/2020		
9/1/2020	<0.00102	
9/2/2020		<0.00102
5/17/2021		<0.00102
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.00102	<0.00102
5/24/2022		
5/25/2022	<0.00102	<0.00102

Time Series

Constituent: Selenium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.00102	<0.00102	<0.00102	<0.00102
3/1/2016	<0.00102		<0.00102		<0.00102				
4/19/2016						<0.00102	<0.00102	<0.00102	<0.00102
4/20/2016	<0.00102		<0.00102		<0.00102				
6/6/2016						<0.00102			<0.00102
6/7/2016	<0.00102		<0.00102				<0.00102	<0.00102	
6/8/2016					<0.00102				
8/30/2016			<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
8/31/2016	<0.00102				<0.00102				
10/18/2016			<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
10/19/2016	<0.00102				<0.00102				
1/31/2017	<0.00102		<0.00102			<0.00102	<0.00102	<0.00102	<0.00102
2/1/2017					<0.00102				
5/2/2017						<0.00102	<0.00102	<0.00102	<0.00102
5/3/2017	<0.00102		<0.00102		<0.00102				
6/6/2017						<0.00102	<0.00102	<0.00102	<0.00102
6/7/2017	<0.00102		<0.00102		<0.00102				
1/23/2018					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
1/24/2018	<0.00102		<0.00102						
5/1/2018							<0.00102	<0.00102	<0.00102
5/2/2018	<0.00102		<0.00102		<0.00102	<0.00102			
11/26/2018									<0.00102
11/27/2018			<0.00102			<0.00102	<0.00102	<0.00102	
11/28/2018	<0.00102				<0.00102				
1/9/2019		<0.00102		<0.00102					
5/28/2019									<0.00102
5/29/2019	<0.00102		<0.00102			<0.00102	<0.00102	<0.00102	
5/30/2019					<0.00102				
9/30/2019	<0.00102		<0.00102		<0.00102				
10/1/2019		<0.00102		<0.00102					
10/2/2019						<0.00102	<0.00102	<0.00102	<0.00102
3/30/2020	<0.00102	<0.00102	<0.00102	<0.00102					
3/31/2020					<0.00102	<0.00102	<0.00102	<0.00102	<0.00102
9/2/2020	<0.00102	<0.00102	<0.00102	<0.00102	<0.00102				
9/8/2020									<0.00102
9/9/2020						<0.00102	<0.00102	<0.00102	
5/11/2021			<0.00102				0.000602 (J)	<0.00102	<0.00102
5/12/2021						<0.00102			
5/18/2021	<0.00102	<0.00102		<0.00102	<0.00102				
10/18/2021								<0.00102	<0.00102
10/19/2021						<0.00102	<0.00102		
10/26/2021			<0.00102	<0.00102					
10/27/2021	<0.00102	<0.00102			<0.00102				
5/23/2022				<0.00102					
5/24/2022	<0.00102	<0.00102	<0.00102		<0.00102				
5/31/2022						<0.00102	0.00063 (J)	<0.00102	<0.00102

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		0.34 (J)		1.02					
3/2/2016	0.31 (J)				<1		<1		<1
4/19/2016	0.335 (J)								
4/20/2016		<1		1.1	<1		<1		<1
6/8/2016	0.556 (J)	0.538 (J)		0.701 (J)	0.511 (J)		0.496 (J)		0.514 (J)
8/30/2016									<1
8/31/2016	<1	<1		<1	<1		<1		
10/18/2016									<1
10/19/2016	<1	<1		<1	<1		<1		
3/21/2017	<1								
3/22/2017		<1		2.1 (J)	<1		6.9		<1
5/2/2017	6								1.8 (J)
5/3/2017		4.1 (J)		3.6 (J)	2.1 (J)		6.6		
6/6/2017	<1								<1
6/7/2017		<1		<1	<1		6		
9/13/2017	4.7 (J)			<1	<1		2.2 (J)		<1
9/14/2017		<1							
5/1/2018	<1								
5/2/2018		<1		<1	<1		4.1 (J)		1.6 (J)
8/28/2018	<1	<1							
8/29/2018				2.3 (J)	<1		<1		<1
11/27/2018									<1
11/28/2018	4.1 (J)	<1		<1	<50 (O)		4.9 (J)		
1/8/2019			93.7			10.3			
5/29/2019	5.75			24.1	7.04		49.5 (o)		67.6 (o)
5/30/2019		3.76							
9/30/2019		2.77		37.4					
10/1/2019	7.82		5.19		35.3		47.7		61.6
10/2/2019						7.18			
3/30/2020	28.4								
3/31/2020		20.1	20.3	57.5	35.8	61.1	23.2		34.7
4/1/2020									
9/1/2020	23.1	15.6	30.1	42.8	32.1	47.5	14.2		
9/2/2020								30.6	18.5
5/11/2021		13.2							
5/18/2021	16.5		24.9		25.1	32.8			
5/19/2021				16.5			50.4	39.7	
5/25/2021									59.2
10/26/2021							21	47.3	
10/27/2021		5.72	6.04						98.5
11/1/2021	10.9				27	10.9			
11/2/2021				133					
5/23/2022				29.3	13	6.64			
5/24/2022	21	14.7	5.73				38.3		
5/25/2022								122	105

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<1
4/19/2016		<1
4/20/2016		
6/8/2016		0.489 (J)
8/30/2016		
8/31/2016		<1
10/18/2016		
10/19/2016		<1
3/21/2017		<1
3/22/2017		
5/2/2017		<1
5/3/2017		
6/6/2017		<1
6/7/2017		
9/13/2017		<1
9/14/2017		
5/1/2018		<1
5/2/2018		
8/28/2018		
8/29/2018		6.2
11/27/2018		<1
11/28/2018		
1/8/2019		
5/29/2019		3.27
5/30/2019		
9/30/2019		
10/1/2019		1.72
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		7.5
9/1/2020		
9/2/2020	63.6	7.61
5/11/2021		7.54
5/18/2021		
5/19/2021		
5/25/2021	39.5	
10/26/2021	75.1	26.4
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	13.6	
5/25/2022		1.8 (J)

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<1							3.3
4/19/2016		<1							2.68
6/8/2016		0.514 (J)							1.1
8/31/2016		<1							<1
10/19/2016		<1							<1
3/21/2017		<1							<1
5/2/2017		<1							<1
6/6/2017		<1							<1
9/12/2017									<1
9/13/2017		2.6 (J)							
5/1/2018		<1							<1
8/28/2018									<1
8/29/2018		3.9 (J)							
11/27/2018		<1							<1
1/8/2019							20.9		
3/20/2019						12.8			
5/29/2019		6.72							0.885 (J)
7/31/2019	2.65			23			11.4		
10/1/2019	0.854 (J)	3.4				8.49	5.9		<1
10/2/2019				10.6				10.5	
3/30/2020								11.1	
3/31/2020		17.5 (o)							1.69
4/1/2020				19.4		24.2			
8/31/2020									0.576 (J)
9/1/2020	2.21			7.61	26.6	30.6	16.9	13	
9/2/2020		13.3 (o)	40						
5/17/2021				10.2					
5/18/2021					17.4			16	<1
5/19/2021		3.11	40.9			7.48			
5/25/2021	1.19						26.6		
10/25/2021				24.5	11	55	28.7		
10/26/2021	0.966 (J)		38.1						
11/1/2021		11.9						20.2	1.56
5/23/2022						9.46			
5/24/2022	2.35						34.7	21.1	0.615 (J)
5/25/2022		6.29	35.1	3.58	49.1				

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
3/21/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	83.2	
10/1/2019	28.9	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	18.7	
8/31/2020		
9/1/2020	43.5	38.3
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	59.5	1.93
5/25/2021		
10/25/2021		
10/26/2021	73.2	
11/1/2021		5.66
5/23/2022	95.1	
5/24/2022		3.79
5/25/2022		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								2.58	<1
3/2/2016							0.79 (J)		
4/19/2016							0.674 (J)	2.3	
4/20/2016									<1
6/7/2016							1	2.58	0.583 (J)
8/30/2016								2.81	<1
8/31/2016							0.702 (J)		
10/18/2016									<1
10/19/2016							0.739 (J)	5.06	
3/21/2017							<1	3.4 (J)	
3/22/2017									<1
5/2/2017							<1	2.7 (J)	
5/3/2017									<1
6/6/2017							<1	1.5 (J)	
6/7/2017									<1
9/12/2017							<1	1.9 (J)	
9/14/2017									<1
5/1/2018							<1	1.4 (J)	
5/2/2018									<1
8/28/2018							<1	<1	
8/29/2018									1.6 (J)
11/27/2018							<1	2.3 (J)	2.7 (J)
11/28/2018									
1/8/2019				31.2					
5/29/2019							0.747 (J)	2.92	5.51
7/31/2019	171	18.4							
10/1/2019	17.2	4.89					0.61 (J)	2.09	7.4
10/2/2019				92.3					
3/31/2020				84.5			1.02	4.12	23.7 (o)
4/1/2020		18.1							
9/1/2020	93.2	24.5	9.25				0.705 (J)	1.83	11
9/2/2020				59.7	4.39	2.26			
5/17/2021			6.92						
5/18/2021							0.883 (J)	4.43	
5/24/2021		3.99			4.94	2.59			
5/25/2021	72.3			17					
10/26/2021	140	29.5	4.23	122					
11/1/2021							1.01	3.34	
11/2/2021					4.28	2.08			15
5/24/2022	103			92.3					
5/25/2022		4.01	4.25		4.24	2.13	1.41 (J)	1.97 (J)	5.53

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		0.36 (J)
3/2/2016		
4/19/2016		0.435 (J)
4/20/2016		
6/7/2016		1.22
8/30/2016		1.08
8/31/2016		
10/18/2016		
10/19/2016		1.01
3/21/2017		
3/22/2017		<1
5/2/2017		
5/3/2017		1.4 (J)
6/6/2017		
6/7/2017		1.5 (J)
9/12/2017		
9/14/2017		1.8 (J)
5/1/2018		
5/2/2018		<1
8/28/2018		
8/29/2018		<1
11/27/2018		
11/28/2018		<1
1/8/2019	1.75	
5/29/2019		1.17
7/31/2019		
10/1/2019		1.04
10/2/2019	5.8	
3/31/2020	0.98 (J)	1.21
4/1/2020		
9/1/2020	1.47	
9/2/2020		1.02
5/17/2021		0.981 (J)
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	1.34	1.37
5/24/2022		
5/25/2022	2.91	1.27 (J)

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						8.59	7.2	7.44	7.04
3/1/2016	0.3 (J)		<1		<1				
4/19/2016						8.27	7.22	7.66	6.74
4/20/2016	0.514 (J)		<1		<1				
6/6/2016						8.66			7.04
6/7/2016	0.971 (J)		0.504 (J)				7.92	8.16	
6/8/2016					0.51 (J)				
8/30/2016			<1			9.74	8.17	8.43	7.57
8/31/2016	0.445 (J)				<1				
10/18/2016			<1			10.2	7.99	8.47	6.62
10/19/2016	0.366 (J)				<1				
3/20/2017						8.3	6.1	7.4	7
3/22/2017	<1		<1		<1				
5/2/2017						6.6	5	6.3	5.6
5/3/2017	<1		2.7 (J)		2.7 (J)				
6/6/2017						7.6	5.3	7.1	6.6
6/7/2017	<1		<1		<1				
9/12/2017									7.2
9/13/2017						8.4	4.9 (J)	7.3	
9/14/2017	<1		<1		<1				
5/1/2018							4.2 (J)	6.9	5.9
5/2/2018	<1		<1		<1	5.9			
8/28/2018					<1				
8/29/2018			<1						
11/26/2018									5.1
11/27/2018			<1			22		6.5	
11/28/2018	<1				1.4 (J)				
1/9/2019		3.69		1.74					
5/28/2019									7.1
5/29/2019	2.77		6.01			23.3	5.94	7.81	
5/30/2019					5.91				
9/30/2019	2.51		5.29		3.77				
10/1/2019		2		7					
10/2/2019						17.5	6.04	7.62	6.88
3/30/2020	4.78	9.65	33.1	75.8					
3/31/2020					43.5	24.3	6.83	7.98	10.8
9/2/2020	3.59	6.7	15.8	24	21.9				
9/8/2020									6.52
9/9/2020						16.5	6.08	7.13	
5/11/2021			35.4				7.92	7.73	6.8
5/12/2021						16.3			
5/18/2021	4.6	5.53		19.6	27.7				
10/18/2021								7.36	6.58
10/19/2021						15.5	7.48		
10/26/2021			25.7	58.2					
10/27/2021	5.17	5.31			6.33				
5/23/2022				8.35					
5/24/2022	7.14	6.06	81.3		5.76				
5/31/2022						12.8	8.09	7.02	7.94

Time Series

Constituent: TDS (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		326		395					
3/2/2016	426				351		319		266
4/19/2016	442								
4/20/2016		366		376	353		305		311
6/8/2016	461	314		324	330		287		353
8/30/2016									328
8/31/2016	456	368		367	354		295		
10/18/2016									310
10/19/2016	444	381		367	354		305		
1/31/2017	422						325		312
2/1/2017		342		391	360				
5/2/2017	442								300
5/3/2017		369		373	341		306		
6/6/2017	433								335
6/7/2017		340		367	337		320		
9/13/2017	456			378	359		332		339
9/14/2017		391							
5/1/2018	416								
5/2/2018		343		330	310		320		301
8/28/2018	420	375							
8/29/2018				352	307		312		318
11/27/2018									295
11/28/2018	408	378		357	336		304		
1/8/2019			462			348			
5/29/2019	403			367	321		307		318
5/30/2019		377							
9/30/2019		361		399					
10/1/2019	430		393		344		290		317
10/2/2019						321			
3/30/2020	419								
3/31/2020		387	413	393	331	328	290		317
4/1/2020									
9/1/2020	454	392	403	399	356	338	285		
9/2/2020								361	327
5/11/2021		391							
5/18/2021	450		401		332	329			
5/19/2021				422			300	362	
5/25/2021									318
10/26/2021							280	355	
10/27/2021		373	400						327
11/1/2021	480				349	352			
11/2/2021				390					
5/23/2022				404	345	352			
5/24/2022	464	398	403				257		
5/25/2022								343	328

Time Series

Constituent: TDS (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		182
4/19/2016		151
4/20/2016		
6/8/2016		168
8/30/2016		
8/31/2016		188
10/18/2016		
10/19/2016		180
1/31/2017		166
2/1/2017		
5/2/2017		183
5/3/2017		
6/6/2017		187
6/7/2017		
9/13/2017		202
9/14/2017		
5/1/2018		197
5/2/2018		
8/28/2018		
8/29/2018		192
11/27/2018		190
11/28/2018		
1/8/2019		
5/29/2019		198
5/30/2019		
9/30/2019		
10/1/2019		236
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		231
9/1/2020		
9/2/2020	498	208
5/11/2021		279
5/18/2021		
5/19/2021		
5/25/2021	520	
10/26/2021	474	269
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	508	
5/25/2022		255

Time Series

Constituent: TDS (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		263							42
4/19/2016		259							51.3
6/8/2016		285							46.7
8/31/2016		279							32.7
10/19/2016		264							37.3
1/31/2017		270							47.3
5/2/2017		259							44
6/6/2017		278							48
9/12/2017									40.7
9/13/2017		333							
5/1/2018		274							42.7
8/28/2018									28
8/29/2018		283							
11/27/2018		250							48
1/8/2019								192	
3/20/2019						293			
5/29/2019		264							47.3
7/31/2019	337			212			318		
10/1/2019	321	295				283	316		44.7
10/2/2019				203				154	
3/30/2020								160	
3/31/2020		276							42
4/1/2020				243		210			
8/31/2020									45.3
9/1/2020	318			236	576	281	294	175	
9/2/2020		279	219						
5/17/2021				201					
5/18/2021					438			189	48.7
5/19/2021		274	213			293			
5/25/2021	335						162		
10/25/2021				225	280	302	123		
10/26/2021	358		195						
11/1/2021		324						190	52
5/23/2022						292			
5/24/2022	348						133	176	40.7
5/25/2022		299	188	194	1270				

Time Series

Constituent: TDS (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	481	
10/1/2019	470	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	319	
8/31/2020		
9/1/2020	479	308
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	479	271
5/25/2021		
10/25/2021		
10/26/2021	493	
11/1/2021		282
5/23/2022	462	
5/24/2022		296
5/25/2022		

Time Series

Constituent: TDS (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								27.3	273
3/2/2016							27.3		
4/19/2016							33.3	38	
4/20/2016									269
6/7/2016							44	48.7	272
8/30/2016								32.7	244
8/31/2016							29.3		
10/18/2016									238
10/19/2016							29.3	36	
1/31/2017							36.7	40.7	266
5/2/2017							28	30.7	
5/3/2017									259
6/6/2017							36.7	41.3	
6/7/2017									255
9/12/2017							35.3	34.7	
9/14/2017									276
5/1/2018							34.7	39.3	
5/2/2018									247
8/28/2018							34	26	
8/29/2018									263
11/27/2018							41.3	32	248
11/28/2018									
1/8/2019				504					
5/29/2019							40	39.3	259
7/31/2019	345	241							
10/1/2019	346	261					36.7	32	243
10/2/2019				430					
3/31/2020				418			37.3	42.7	243
4/1/2020		105							
9/1/2020	362	271	391				39.3	36	253
9/2/2020				471	36	34			
5/17/2021			386						
5/18/2021							38	47.3	
5/24/2021		244			39.3	26.7			
5/25/2021	378			420					
10/26/2021	362	252	362	448					
11/1/2021							35.3	32	
11/2/2021					34.7	36			297
5/24/2022	372			486					
5/25/2022		236	359		37.3	29.3	50.7	48.7	252

Time Series

Constituent: TDS (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		45.3
3/2/2016		
4/19/2016		46
4/20/2016		
6/7/2016		46
8/30/2016		30
8/31/2016		
10/18/2016		
10/19/2016		37.3
1/31/2017		43.3
5/2/2017		
5/3/2017		44.7
6/6/2017		
6/7/2017		45.3
9/12/2017		
9/14/2017		48.7
5/1/2018		
5/2/2018		44
8/28/2018		
8/29/2018		50
11/27/2018		
11/28/2018		50.7
1/8/2019	76.7	
5/29/2019		48.7
7/31/2019		
10/1/2019		38
10/2/2019	98	
3/31/2020	81.3	42
4/1/2020		
9/1/2020	94	
9/2/2020		37.3
5/17/2021		46.7
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	77.3	38
5/24/2022		
5/25/2022	75.3	40.7

Time Series

Constituent: TDS (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						26.7	30.7	40	<25
3/1/2016	129		309		314				
4/19/2016						<25	<25	32	<25
4/20/2016	128		324		338				
6/6/2016						32.7			28.7
6/7/2016	140		314				35.3	38.7	
6/8/2016					288				
8/30/2016			308			33.3	27.3	31.3	25.3
8/31/2016	112				334				
10/18/2016			295			27.3	<25	26.7	<25
10/19/2016	134				333				
1/31/2017	134		303			32	32.7	30	26
2/1/2017					330				
5/2/2017						31.3	30.7	30.7	<25
5/3/2017	127		300		338				
6/6/2017						35.3	34.7	32.7	42.7
6/7/2017	134		284		300				
9/12/2017									26.7
9/13/2017						36.7	39.3	38	
9/14/2017	141		325		350				
5/1/2018							42	35.3	34.7
5/2/2018	133		306		333	34			
8/28/2018					324				
8/29/2018			287						
11/26/2018									32.7
11/27/2018			303			50.7	31.3	36	
11/28/2018	138				330				
1/9/2019		240		276					
5/28/2019									31.3
5/29/2019	132		291			58	40	37.3	
5/30/2019					315				
9/30/2019	137		293		319				
10/1/2019		182		324					
10/2/2019						46	41.3	36.7	36
3/30/2020	135	204	310	328					
3/31/2020					330	53.3	40	39.3	36.7
9/2/2020	129	168	298	318	301				
9/8/2020									39.3
9/9/2020						42	40.7	42.7	
5/11/2021			318				35.3	44	46.7
5/12/2021						40.7			
5/18/2021	175	192		331	314				
10/18/2021								36	36
10/19/2021						40	36		
10/26/2021			332	350					
10/27/2021	123	169			302				
5/23/2022				331					
5/24/2022	148	228	303		268				
5/31/2022						32	30.7	35.3	36.7

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.0002		<0.0002					
3/2/2016	<0.0002				<0.0002		<0.0002		<0.0002
4/19/2016	<0.0002								
4/20/2016		<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
6/8/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
8/30/2016									<0.0002
8/31/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
10/18/2016									<0.0002
10/19/2016	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
1/31/2017	<0.0002						<0.0002		<0.0002
2/1/2017		<0.0002		<0.0002	<0.0002				
5/2/2017	<0.0002								<0.0002
5/3/2017		<0.0002		<0.0002	<0.0002		<0.0002		
6/6/2017	<0.0002								<0.0002
6/7/2017		<0.0002		<0.0002	<0.0002		0.000878 (J)		
1/22/2018							<0.0002		
1/23/2018		<0.0002		<0.0002	<0.0002				<0.0002
1/24/2018	<0.0002								
5/1/2018	<0.0002								
5/2/2018		<0.0002		<0.0002	<0.0002		<0.0002		<0.0002
11/27/2018									<0.0002
11/28/2018	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002		
1/8/2019			<0.0002			<0.0002			
5/29/2019	<0.0002			<0.0002	<0.0002		<0.0002		<0.0002
5/30/2019		<0.0002							
9/30/2019		<0.0002		<0.0002					
10/1/2019	<0.0002		<0.0002		<0.0002		<0.0002		<0.0002
10/2/2019						<0.0002			
3/30/2020	<0.0002								
3/31/2020		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
4/1/2020									
9/1/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
9/2/2020								<0.0002	<0.0002
5/11/2021		<0.0002							
5/18/2021	<0.0002		<0.0002		<0.0002	<0.0002			
5/19/2021				<0.0002			<0.0002	<0.0002	
5/25/2021									<0.0002
10/26/2021							<0.0002	<0.0002	
10/27/2021		<0.0002	<0.0002						<0.0002
11/1/2021	<0.0002				<0.0002	<0.0002			
11/2/2021				<0.0002					
5/23/2022				<0.0002	<0.0002	<0.0002			
5/24/2022	<0.0002	<0.0002	<0.0002				<0.0002		
5/25/2022								<0.0002	<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.0002
4/19/2016		<0.0002
4/20/2016		
6/8/2016		<0.0002
8/30/2016		
8/31/2016		<0.0002
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
2/1/2017		
5/2/2017		<0.0002
5/3/2017		
6/6/2017		<0.0002
6/7/2017		
1/22/2018		<0.0002
1/23/2018		
1/24/2018		
5/1/2018		<0.0002
5/2/2018		
11/27/2018		<0.0002
11/28/2018		
1/8/2019		
5/29/2019		<0.0002
5/30/2019		
9/30/2019		
10/1/2019		<0.0002
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.0002
9/1/2020		
9/2/2020	<0.0002	<0.0002
5/11/2021		<0.0002
5/18/2021		
5/19/2021		
5/25/2021	<0.0002	
10/26/2021	<0.0002	<0.0002
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.0002	
5/25/2022		<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.0002							<0.0002
4/19/2016		<0.0002							<0.0002
6/8/2016		<0.0002							<0.0002
8/31/2016		<0.0002							<0.0002
10/19/2016		<0.0002							<0.0002
1/31/2017		<0.0002							<0.0002
5/2/2017		<0.0002							<0.0002
6/6/2017		<0.0002							<0.0002
1/23/2018		<0.0002							<0.0002
1/24/2018									<0.0002
5/1/2018		<0.0002							<0.0002
11/27/2018		<0.0002							<0.0002
1/8/2019								<0.0002	
3/20/2019						<0.0002			
5/29/2019		<0.0002							<0.0002
7/31/2019	<0.0002			<0.0002			<0.0002		
10/1/2019	<0.0002	<0.0002				<0.0002	<0.0002		<0.0002
10/2/2019				<0.0002				<0.0002	
3/30/2020								<0.0002	
3/31/2020		<0.0002							<0.0002
4/1/2020				<0.0002		<0.0002			
8/31/2020									<0.0002
9/1/2020	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
9/2/2020		<0.0002	<0.0002						
5/17/2021				<0.0002					
5/18/2021					<0.0002			<0.0002	<0.0002
5/19/2021		<0.0002	9.13E-05 (J)			<0.0002			
5/25/2021	8.49E-05 (J)						<0.0002		
10/25/2021				<0.0002	<0.0002	<0.0002	<0.0002		
10/26/2021	7E-05 (J)		0.0001 (J)						
11/1/2021		<0.0002						<0.0002	<0.0002
5/23/2022						<0.0002			
5/24/2022	0.00014 (J)						<0.0002	<0.0002	<0.0002
5/25/2022		<0.0002	9E-05 (J)	<0.0002	0.0001 (J)				

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.0002	
10/1/2019	<0.0002	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.0002	
8/31/2020		
9/1/2020	<0.0002	<0.0002
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.0002	<0.0002
5/25/2021		
10/25/2021		
10/26/2021	<0.0002	
11/1/2021		<0.0002
5/23/2022	<0.0002	
5/24/2022		<0.0002
5/25/2022		

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-25VM	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
3/1/2016								<0.0002	<0.0002
3/2/2016							<0.0002		
4/19/2016							<0.0002	<0.0002	
4/20/2016									<0.0002
6/7/2016							<0.0002	<0.0002	<0.0002
8/30/2016								<0.0002	<0.0002
8/31/2016							<0.0002		
10/18/2016									<0.0002
10/19/2016							<0.0002	<0.0002	
1/31/2017							<0.0002	<0.0002	<0.0002
5/2/2017							<0.0002	<0.0002	
5/3/2017									<0.0002
6/6/2017							<0.0002	<0.0002	
6/7/2017									<0.0002
1/24/2018							<0.0002	<0.0002	<0.0002
5/1/2018							<0.0002	<0.0002	
5/2/2018									<0.0002
11/27/2018							<0.0002	<0.0002	<0.0002
11/28/2018									
1/8/2019				<0.0002					
5/29/2019							<0.0002	<0.0002	<0.0002
7/31/2019	<0.0002	<0.0002							
10/1/2019	<0.0002	<0.0002					<0.0002	<0.0002	<0.0002
10/2/2019				<0.0002					
3/31/2020				<0.0002			<0.0002	<0.0002	<0.0002
4/1/2020		<0.0002							
9/1/2020	<0.0002	<0.0002	<0.0002				<0.0002	<0.0002	<0.0002
9/2/2020				<0.0002	<0.0002	<0.0002			
5/17/2021			<0.0002						
5/18/2021							<0.0002	<0.0002	
5/24/2021		<0.0002			<0.0002	<0.0002			
5/25/2021	<0.0002			<0.0002					
10/26/2021	<0.0002	<0.0002	<0.0002	<0.0002					
11/1/2021							<0.0002	<0.0002	
11/2/2021					<0.0002	<0.0002			<0.0002
5/24/2022	<0.0002			<0.0002					
5/25/2022		<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Thallium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5V	BY-AP-MW-6
3/1/2016		<0.0002
3/2/2016		
4/19/2016		<0.0002
4/20/2016		
6/7/2016		<0.0002
8/30/2016		<0.0002
8/31/2016		
10/18/2016		
10/19/2016		<0.0002
1/31/2017		<0.0002
5/2/2017		
5/3/2017		<0.0002
6/6/2017		
6/7/2017		<0.0002
1/24/2018		<0.0002
5/1/2018		
5/2/2018		<0.0002
11/27/2018		
11/28/2018		<0.0002
1/8/2019	<0.0002	
5/29/2019		<0.0002
7/31/2019		
10/1/2019		<0.0002
10/2/2019	<0.0002	
3/31/2020	<0.0002	<0.0002
4/1/2020		
9/1/2020	<0.0002	
9/2/2020		<0.0002
5/17/2021		<0.0002
5/18/2021		
5/24/2021		
5/25/2021		
10/26/2021		
11/1/2021		
11/2/2021	<0.0002	<0.0002
5/24/2022		
5/25/2022	<0.0002	<0.0002

Time Series

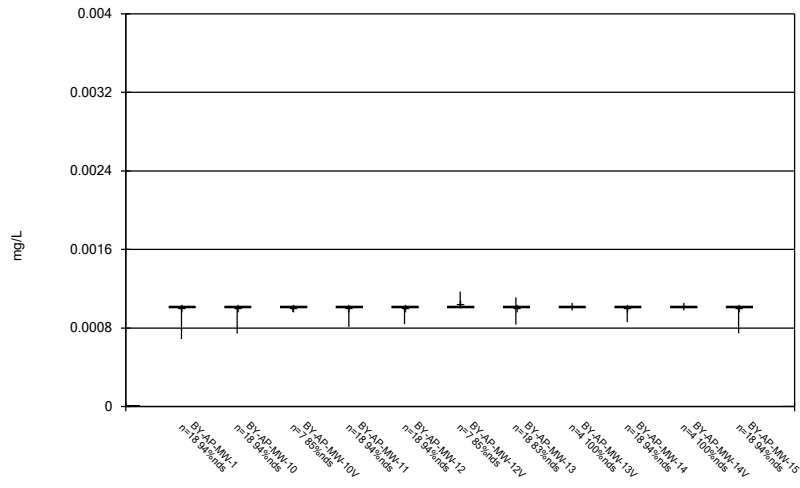
Constituent: Thallium (mg/L) Analysis Run 7/21/2022 3:46 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)
2/23/2016						<0.0002	<0.0002	<0.0002	<0.0002
3/1/2016	<0.0002		<0.0002		<0.0002				
4/19/2016						<0.0002	<0.0002	<0.0002	<0.0002
4/20/2016	<0.0002		<0.0002		<0.0002				
6/6/2016						<0.0002			<0.0002
6/7/2016	<0.0002		<0.0002				<0.0002	<0.0002	
6/8/2016					<0.0002				
8/30/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
8/31/2016	<0.0002				<0.0002				
10/18/2016			<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
10/19/2016	<0.0002				<0.0002				
1/31/2017	<0.0002		<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
2/1/2017					<0.0002				
5/2/2017						<0.0002	<0.0002	<0.0002	<0.0002
5/3/2017	<0.0002		<0.0002		<0.0002				
6/6/2017						<0.0002	<0.0002	<0.0002	<0.0002
6/7/2017	<0.0002		<0.0002		<0.0002				
1/23/2018					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
1/24/2018	<0.0002		<0.0002						
5/1/2018							<0.0002	<0.0002	<0.0002
5/2/2018	<0.0002		<0.0002		<0.0002	<0.0002			
11/26/2018									<0.0002
11/27/2018			<0.0002			<0.0002	<0.0002	<0.0002	
11/28/2018	<0.0002				<0.0002				
1/9/2019		<0.0002		<0.0002					
5/28/2019									<0.0002
5/29/2019	<0.0002		<0.0002			<0.0002	<0.0002	<0.0002	
5/30/2019					<0.0002				
9/30/2019	<0.0002		<0.0002		<0.0002				
10/1/2019		<0.0002		<0.0002					
10/2/2019						<0.0002	<0.0002	<0.0002	<0.0002
3/30/2020	<0.0002	<0.0002	<0.0002	<0.0002					
3/31/2020					<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/2/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
9/8/2020									<0.0002
9/9/2020						<0.0002	<0.0002	<0.0002	
5/11/2021			<0.0002				<0.0002	<0.0002	<0.0002
5/12/2021						<0.0002			
5/18/2021	<0.0002	<0.0002		<0.0002	<0.0002				
10/18/2021								<0.0002	<0.0002
10/19/2021						<0.0002	<0.0002		
10/26/2021			<0.0002	<0.0002					
10/27/2021	<0.0002	<0.0002			<0.0002				
5/23/2022				<0.0002					
5/24/2022	<0.0002	<0.0002	<0.0002		<0.0002				
5/31/2022						<0.0002	<0.0002	<0.0002	<0.0002

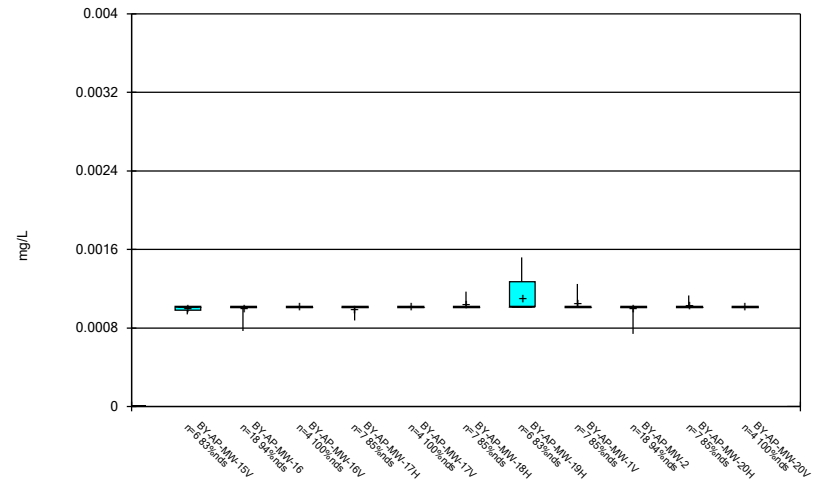
FIGURE B.

Box & Whiskers Plot



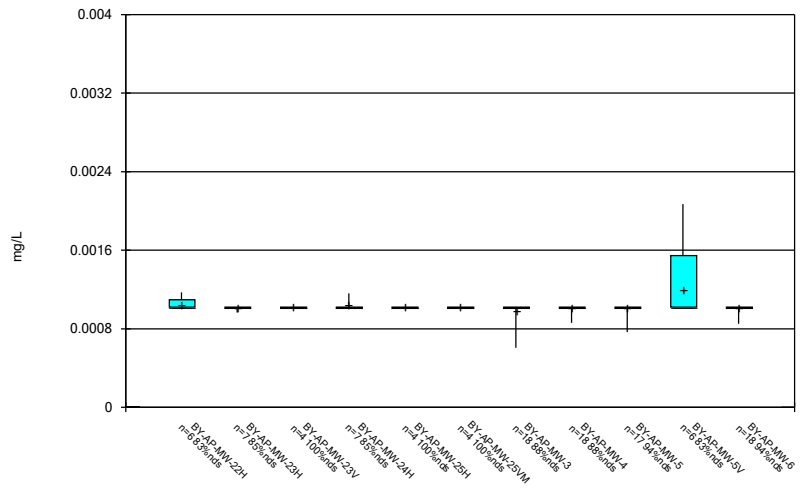
Constituent: Antimony Analysis Run 7/21/2022 3:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



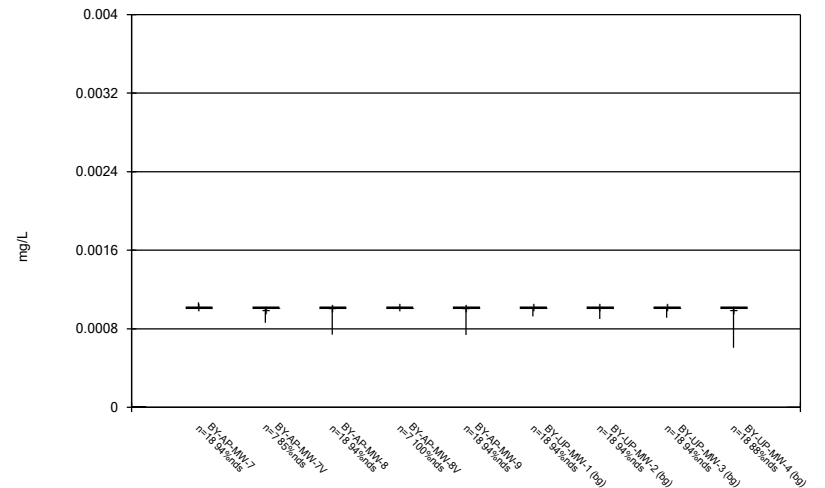
Constituent: Antimony Analysis Run 7/21/2022 3:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



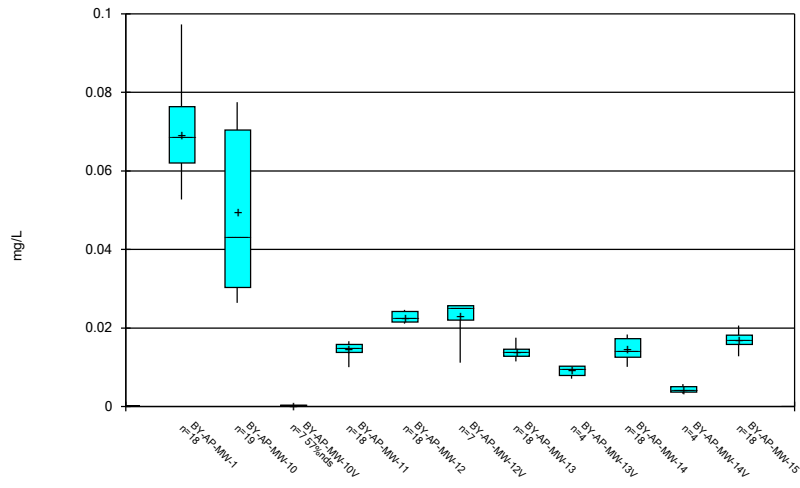
Constituent: Antimony Analysis Run 7/21/2022 3:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



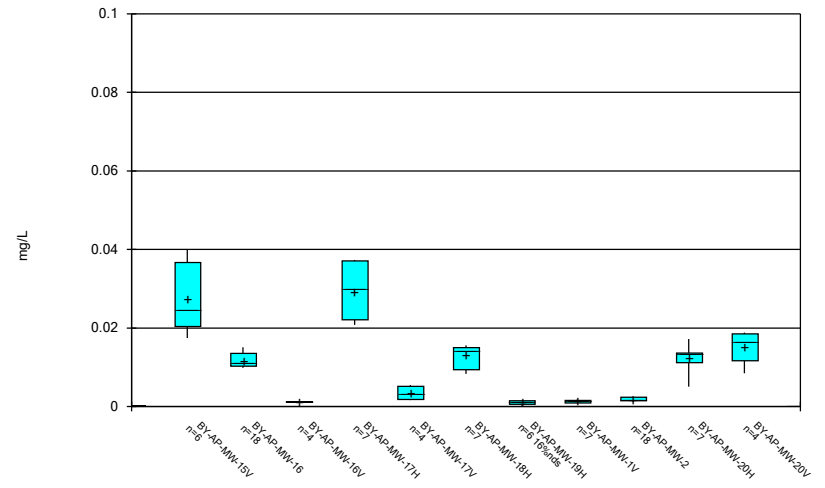
Constituent: Antimony Analysis Run 7/21/2022 3:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



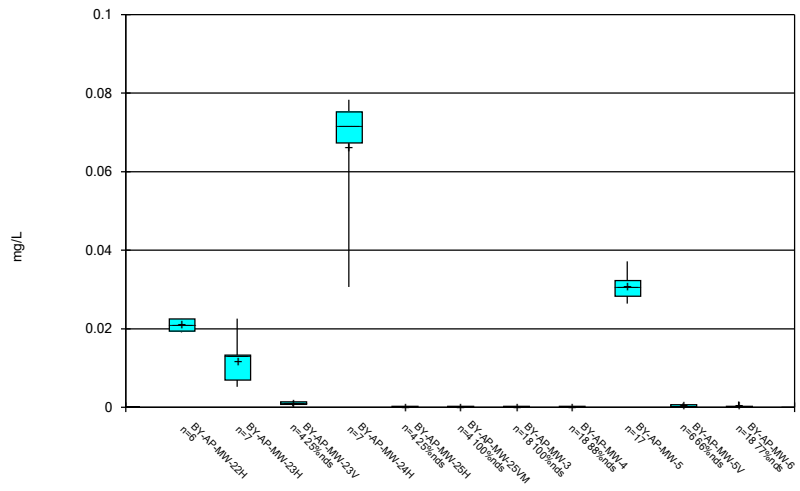
Constituent: Arsenic Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



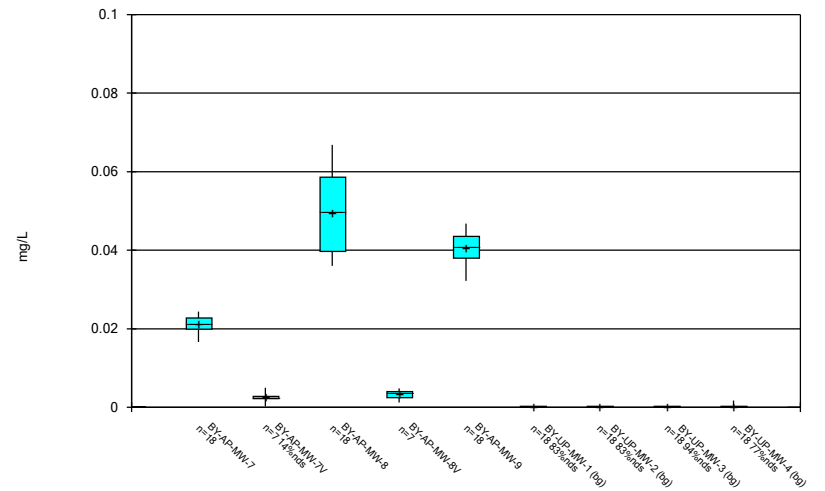
Constituent: Arsenic Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



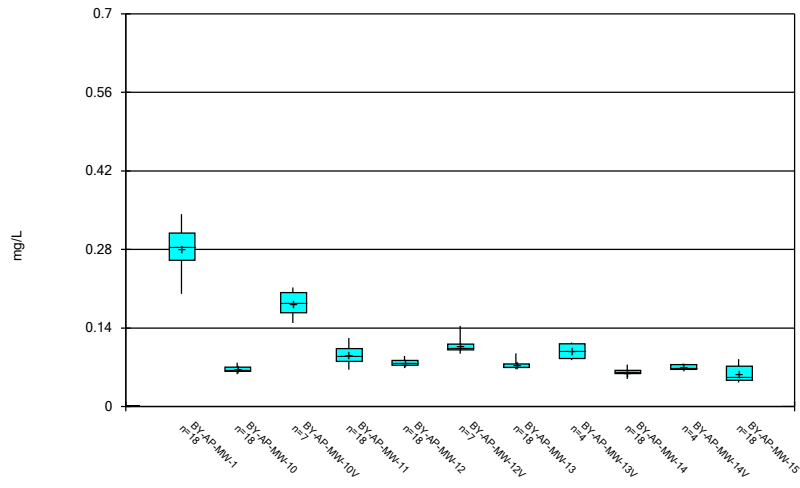
Constituent: Arsenic Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



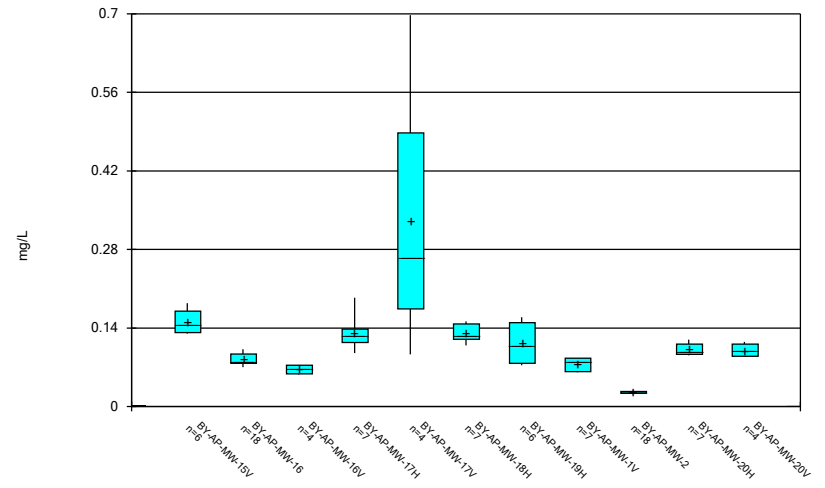
Constituent: Arsenic Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



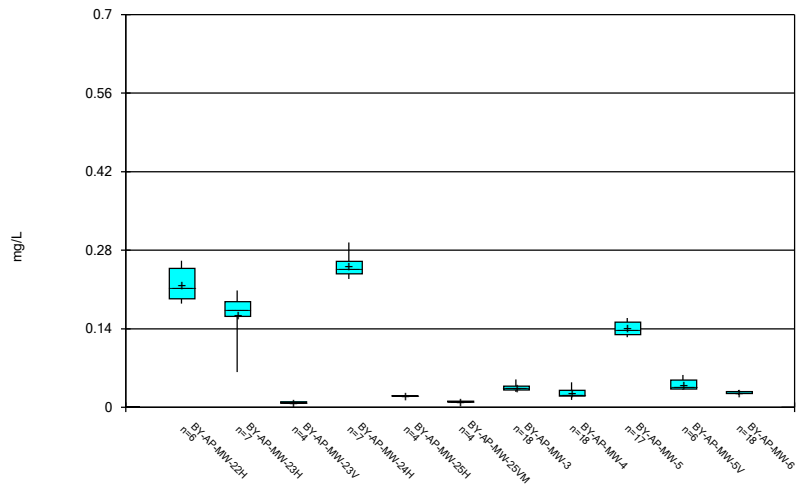
Constituent: Barium Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



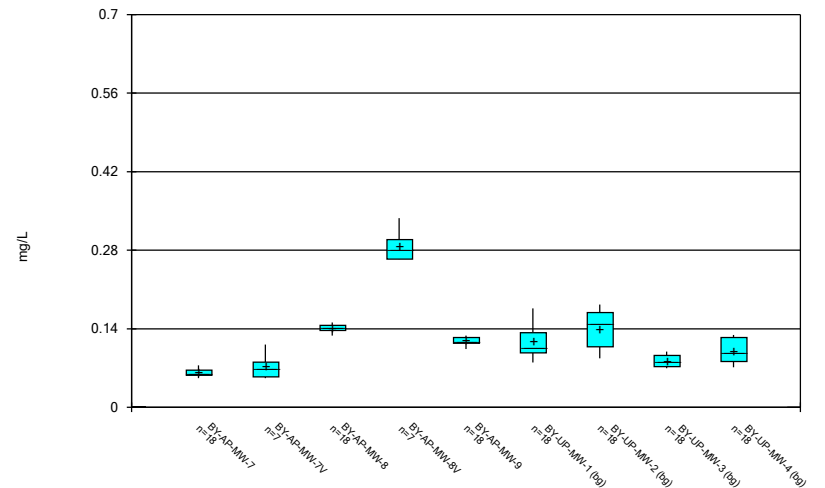
Constituent: Barium Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



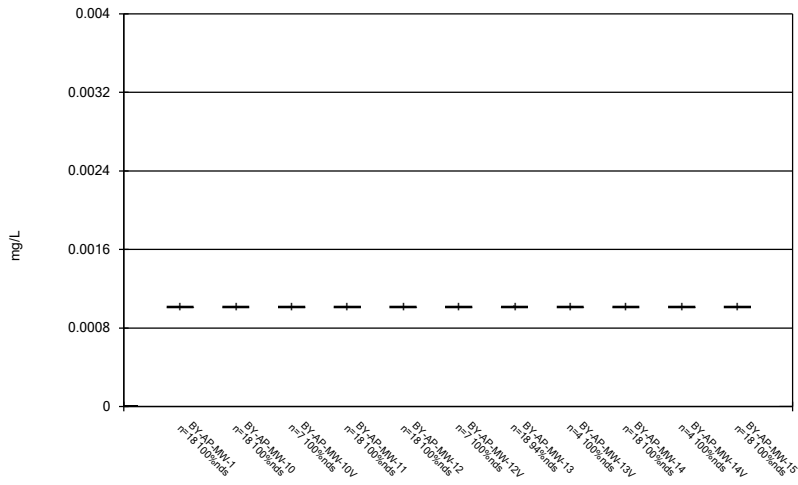
Constituent: Barium Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



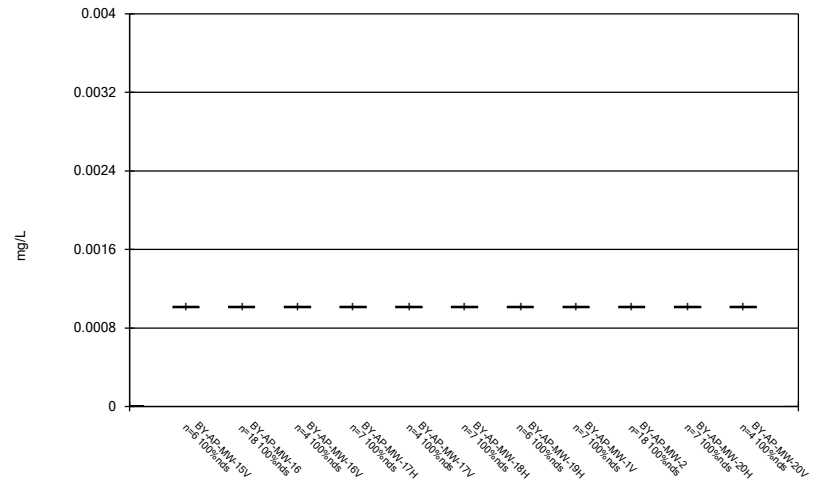
Constituent: Barium Analysis Run 7/21/2022 3:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



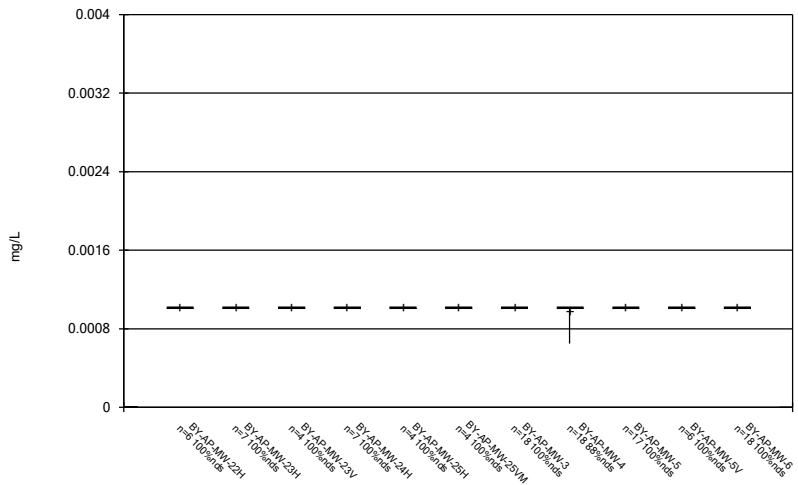
Constituent: Beryllium Analysis Run 7/21/2022 3:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



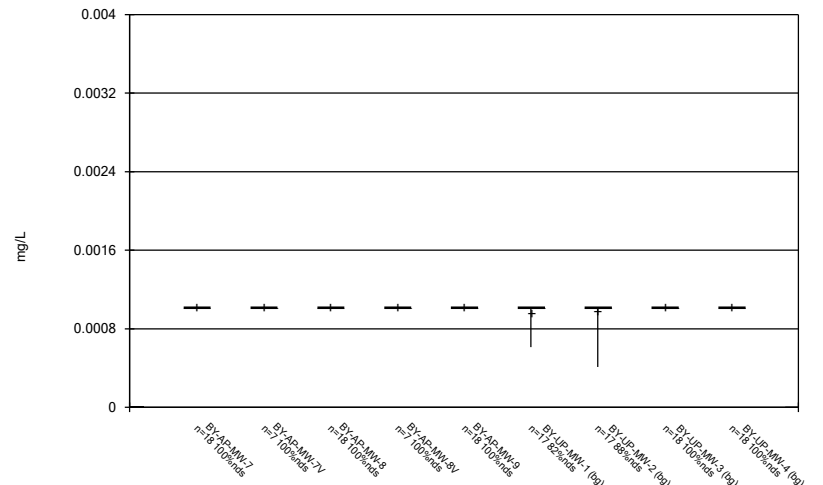
Constituent: Beryllium Analysis Run 7/21/2022 3:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



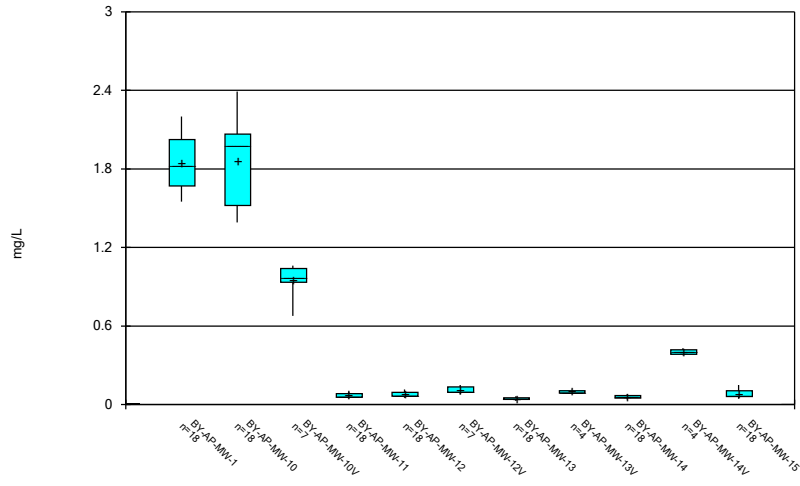
Constituent: Beryllium Analysis Run 7/21/2022 3:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



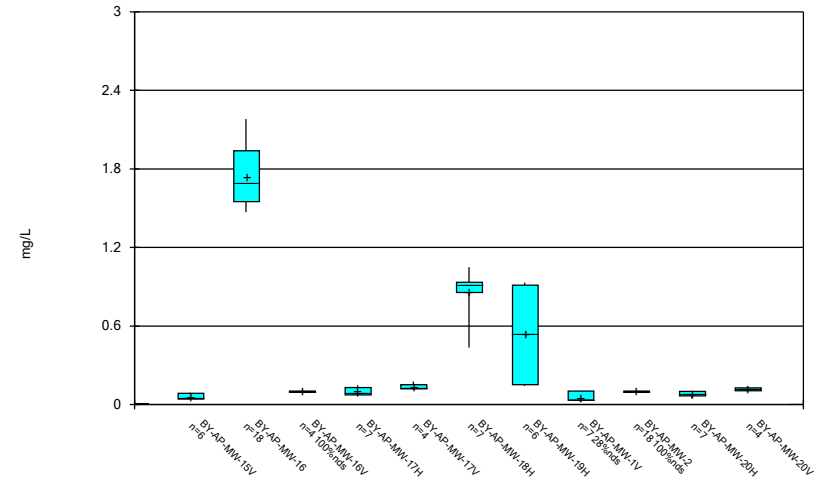
Constituent: Beryllium Analysis Run 7/21/2022 3:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



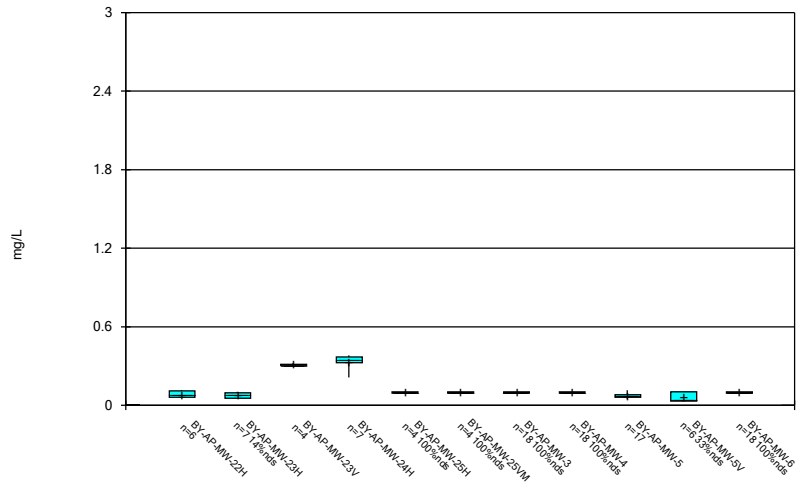
Constituent: Boron, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



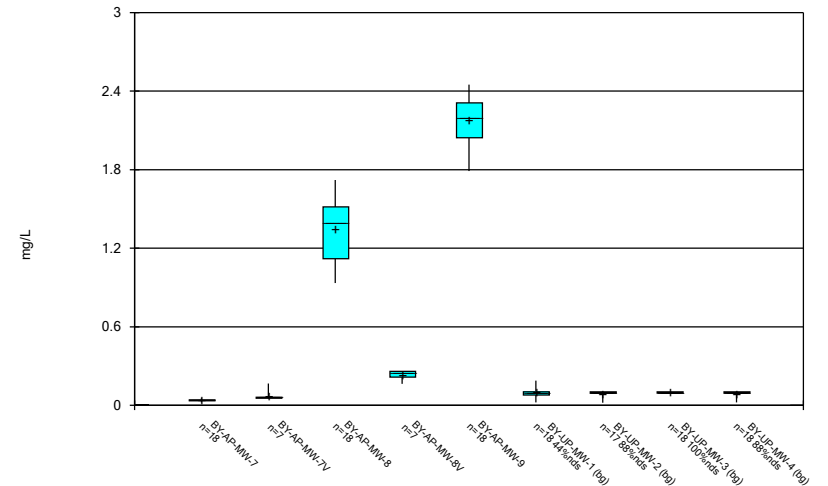
Constituent: Boron, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



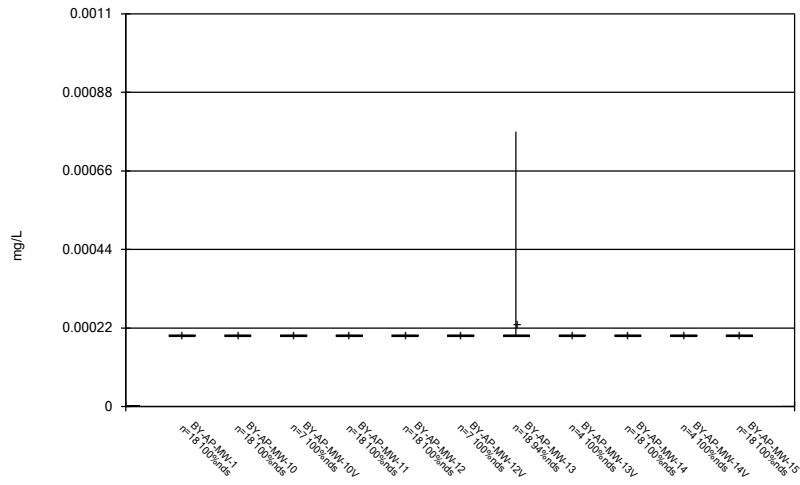
Constituent: Boron, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



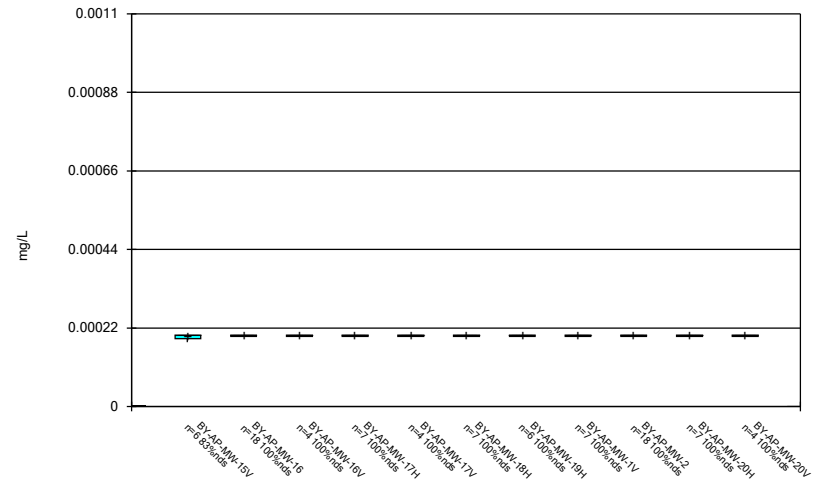
Constituent: Boron, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



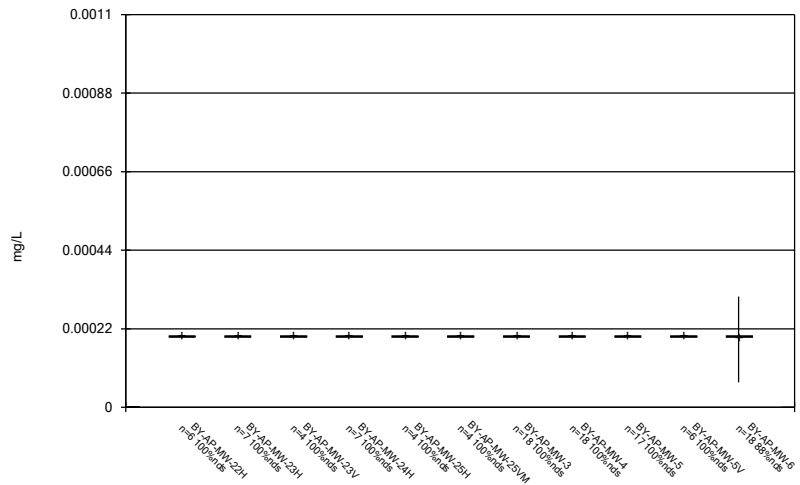
Constituent: Cadmium Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



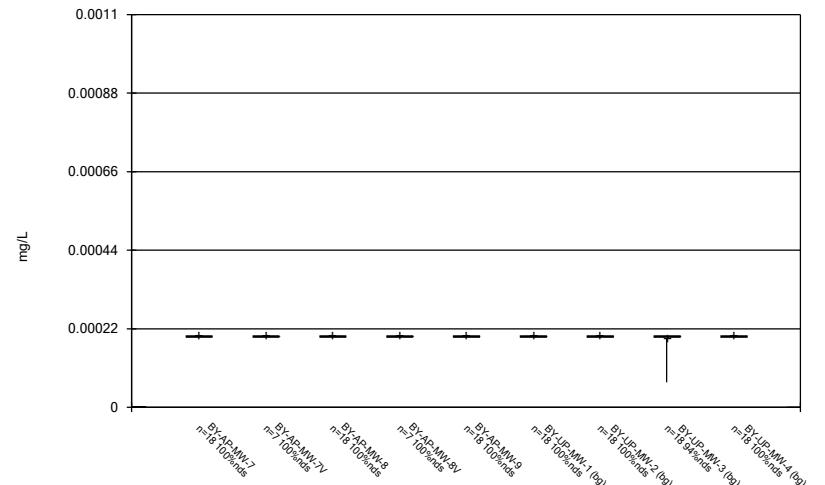
Constituent: Cadmium Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



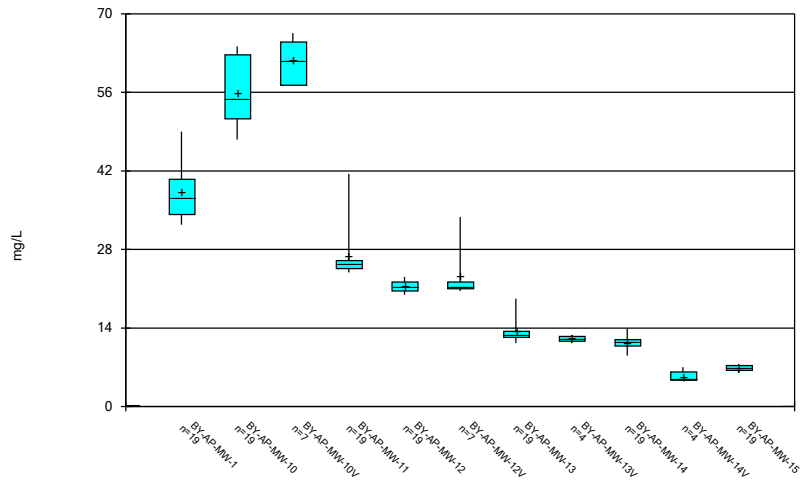
Constituent: Cadmium Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



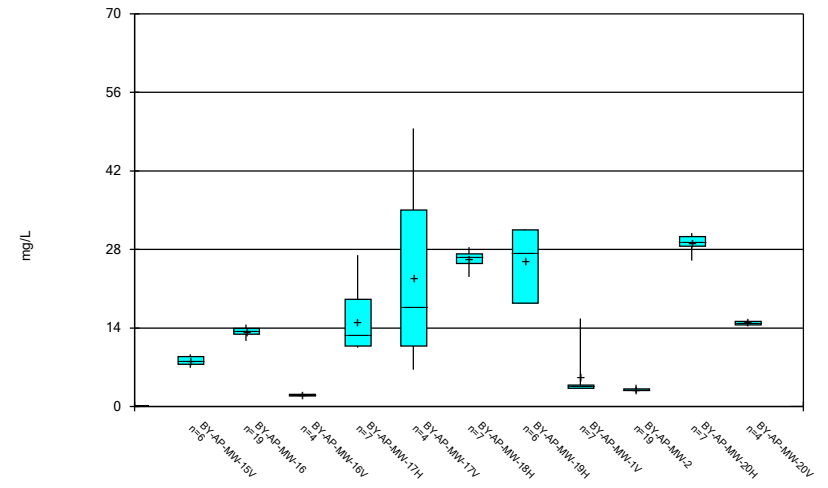
Constituent: Cadmium Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



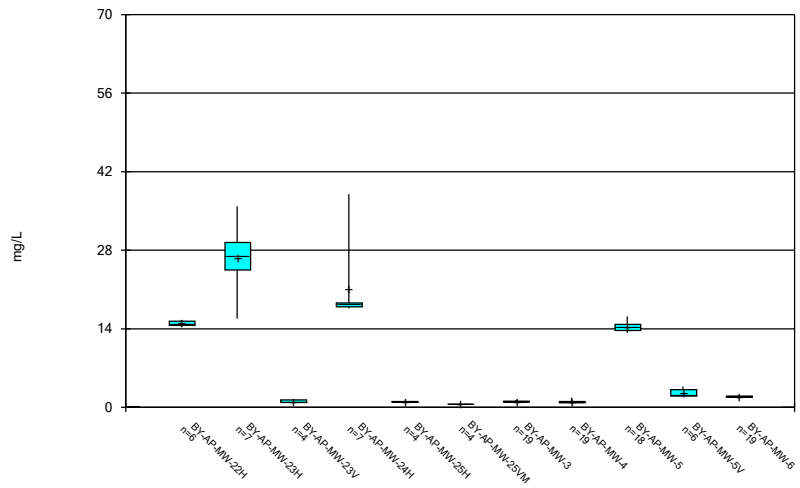
Constituent: Calcium, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



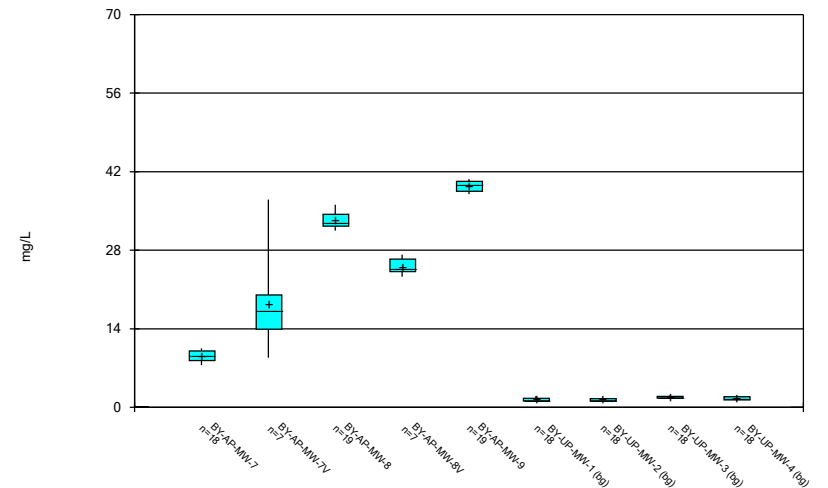
Constituent: Calcium, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



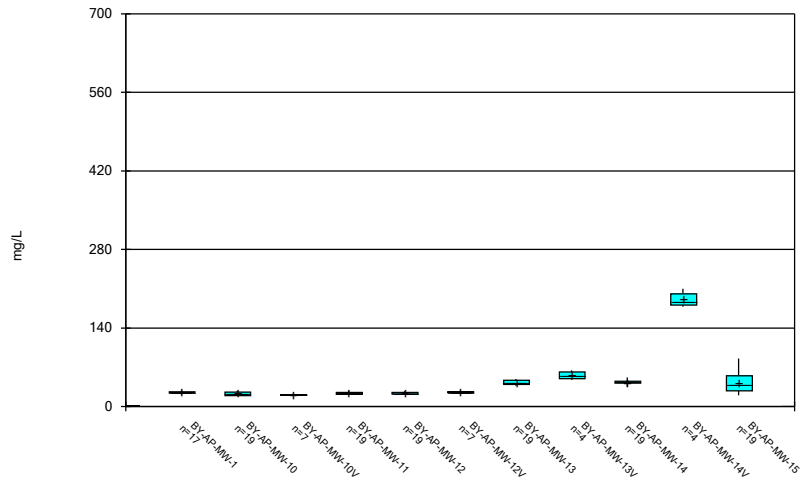
Constituent: Calcium, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



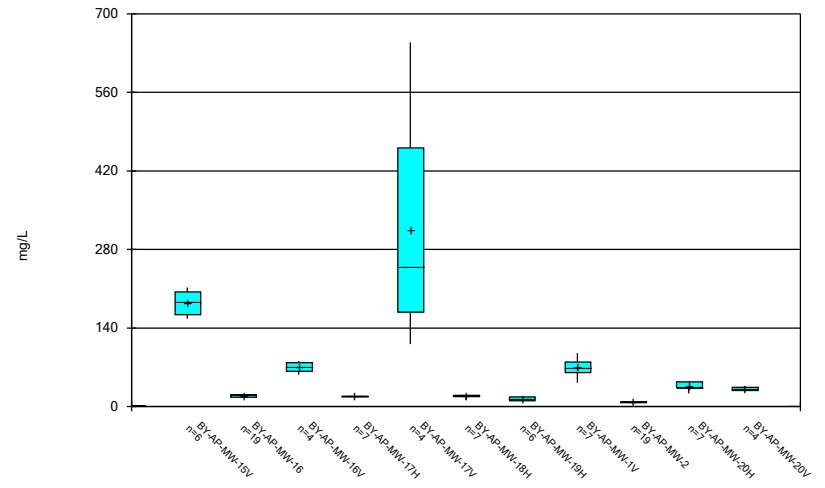
Constituent: Calcium, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



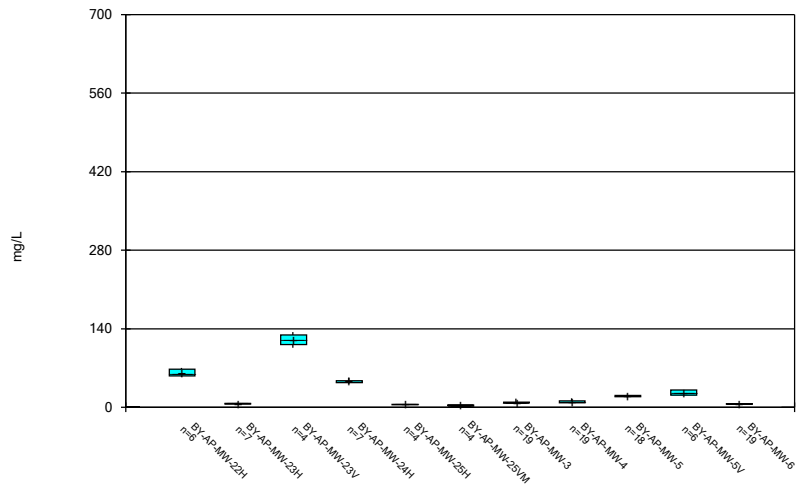
Constituent: Chloride, Total Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



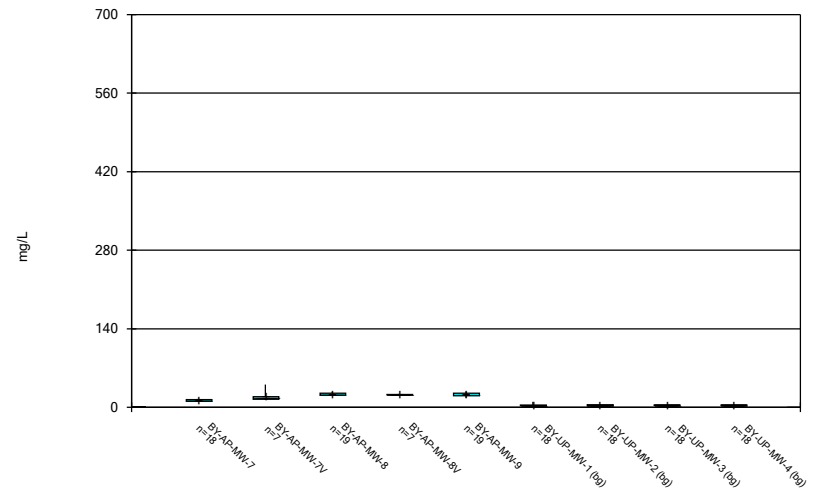
Constituent: Chloride, Total Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



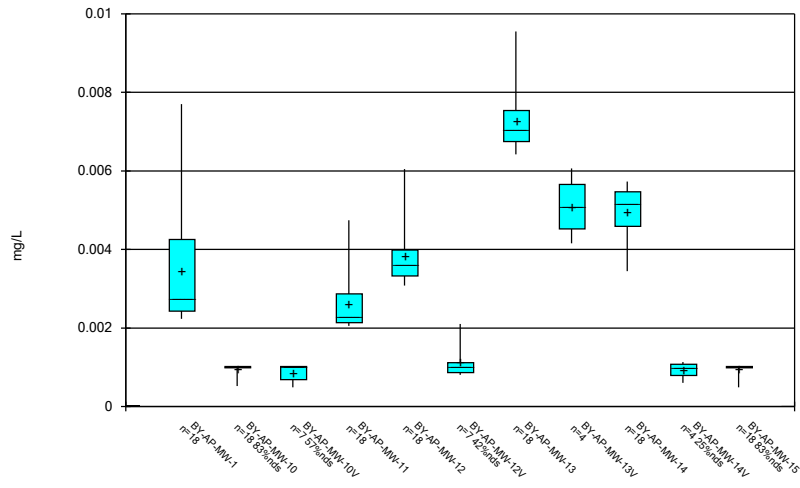
Constituent: Chloride, Total Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



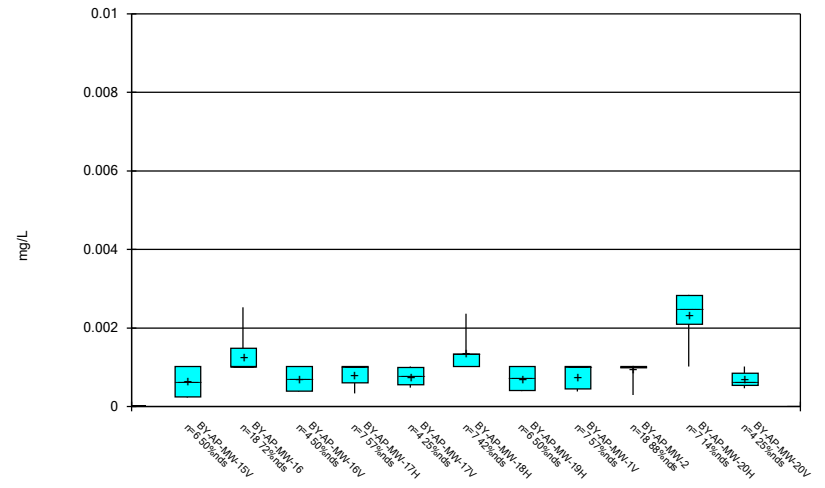
Constituent: Chloride, Total Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



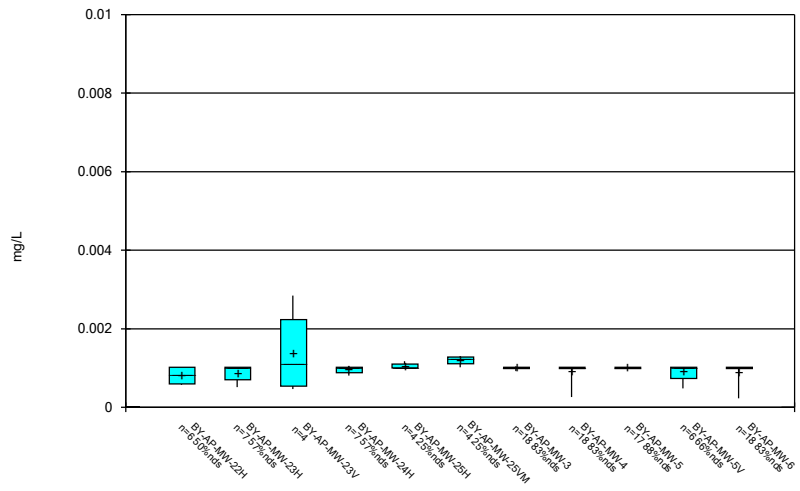
Constituent: Chromium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



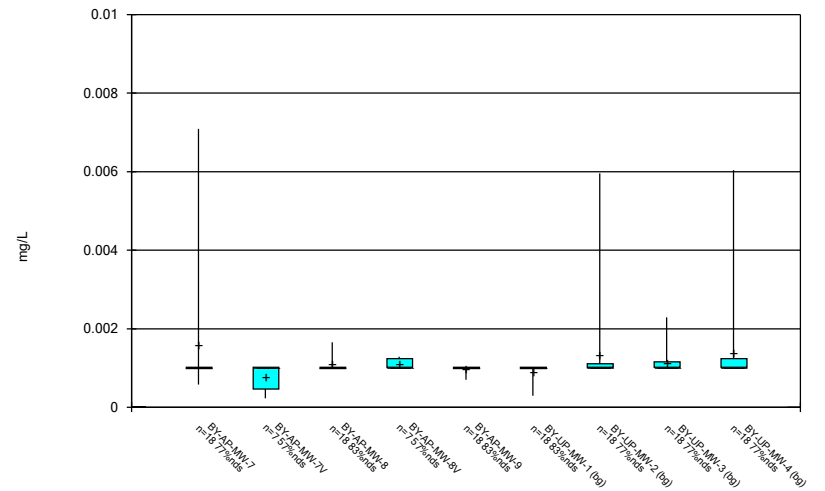
Constituent: Chromium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



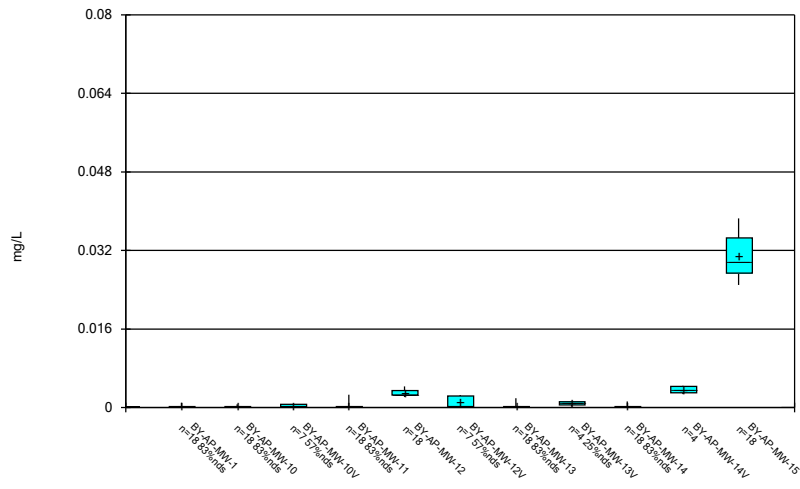
Constituent: Chromium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



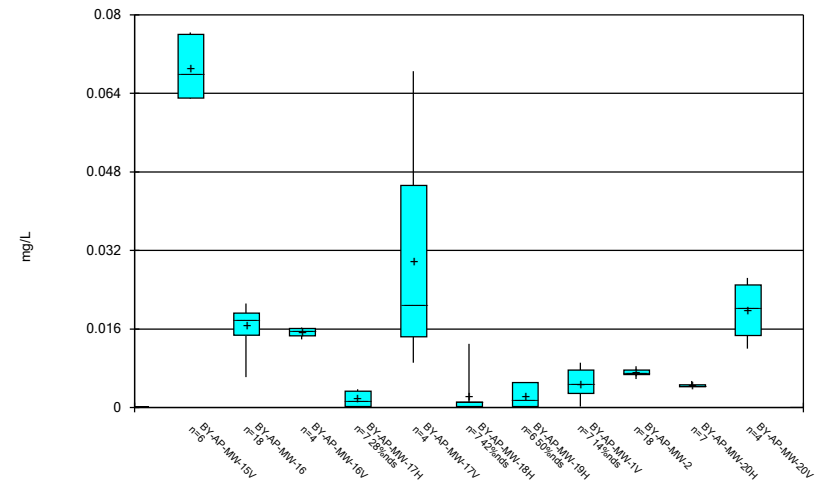
Constituent: Chromium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



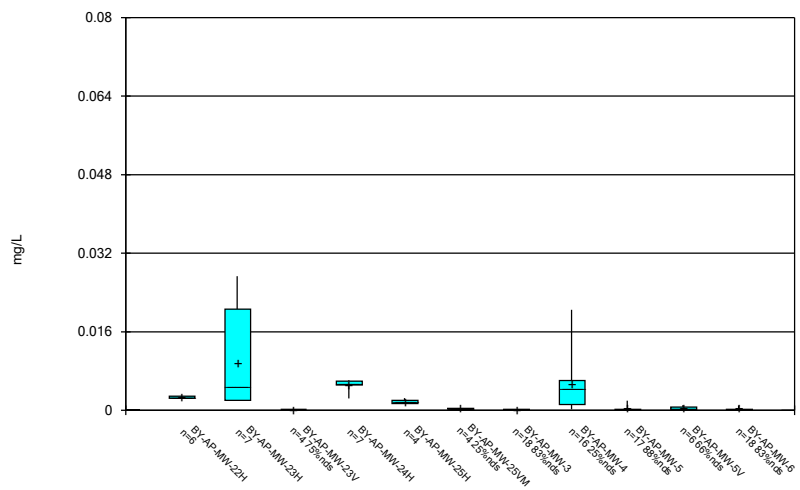
Constituent: Cobalt Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



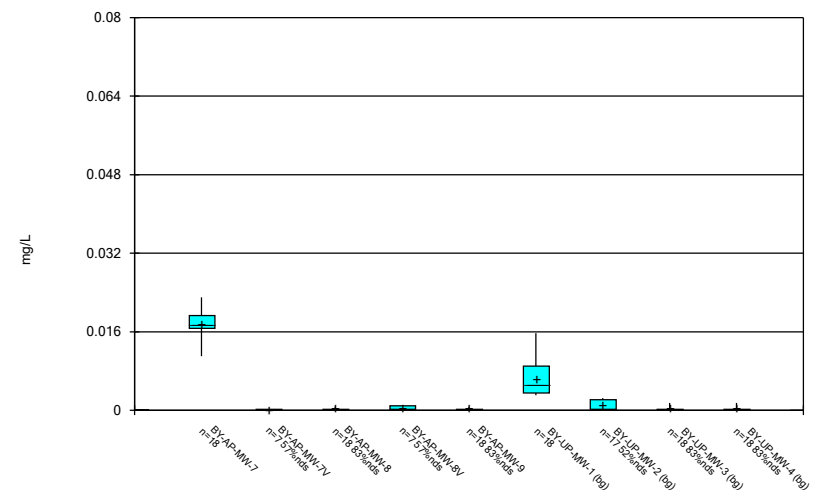
Constituent: Cobalt Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



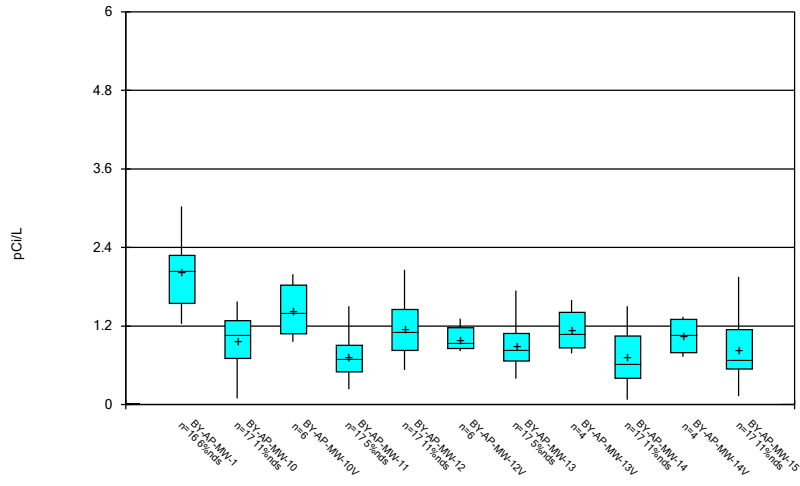
Constituent: Cobalt Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



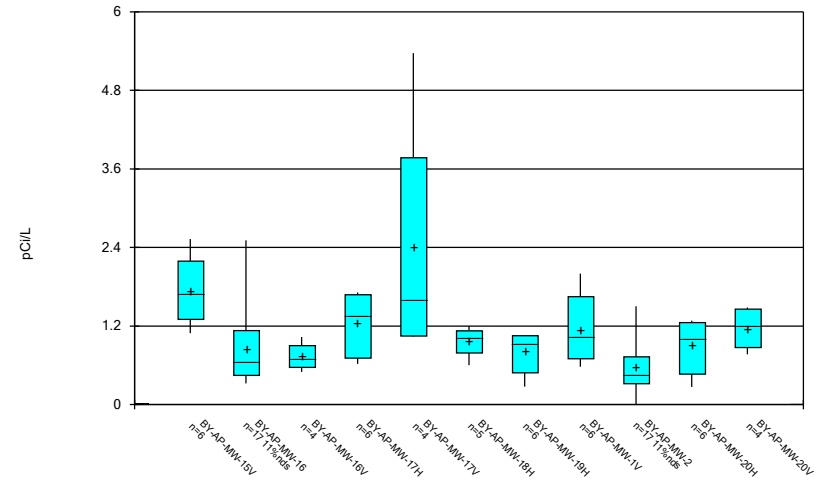
Constituent: Cobalt Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



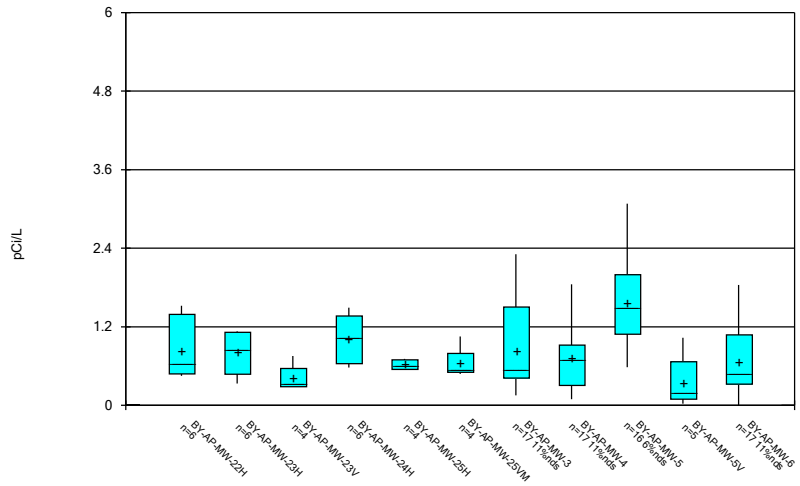
Constituent: Combined Radium 226 + 228 Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



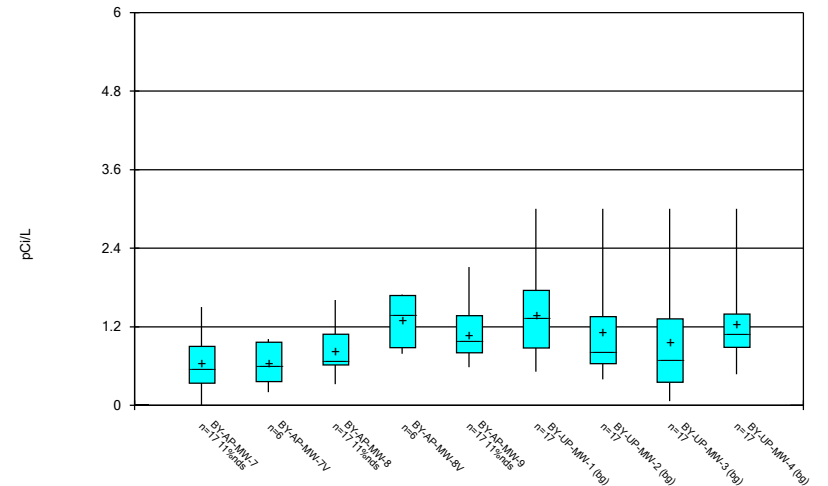
Constituent: Combined Radium 226 + 228 Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



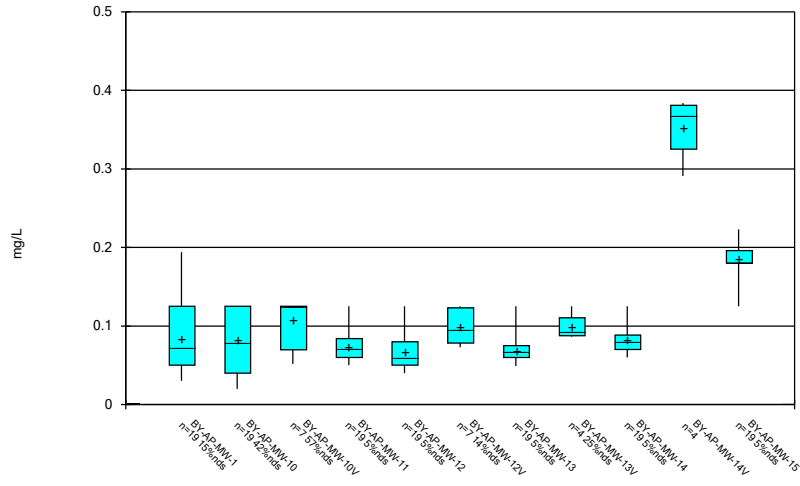
Constituent: Combined Radium 226 + 228 Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



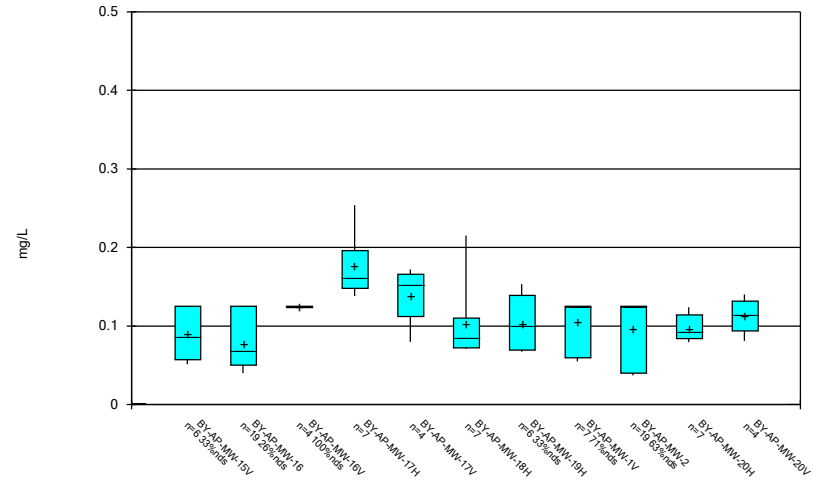
Constituent: Combined Radium 226 + 228 Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



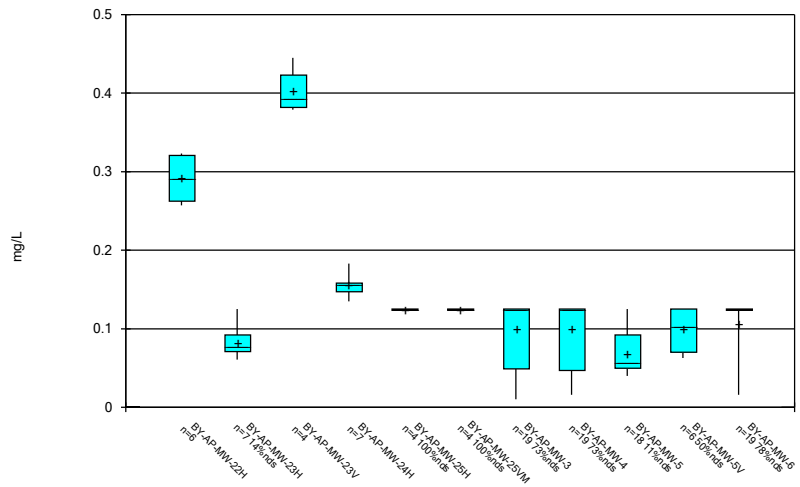
Constituent: Fluoride, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



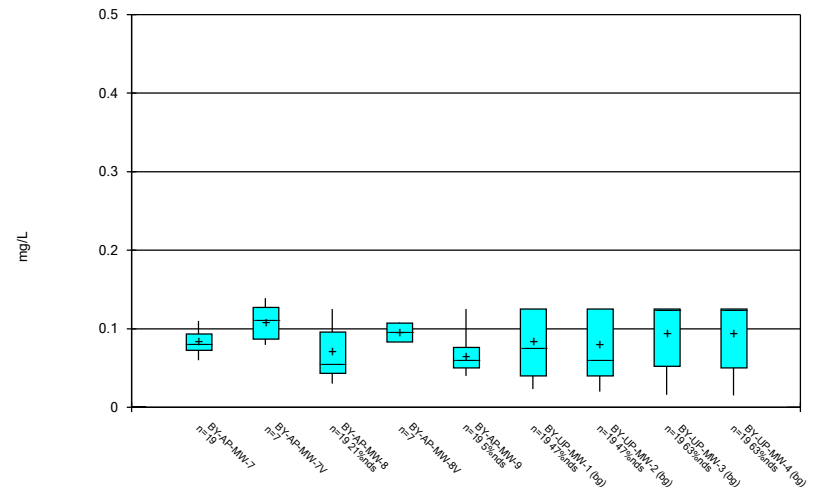
Constituent: Fluoride, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



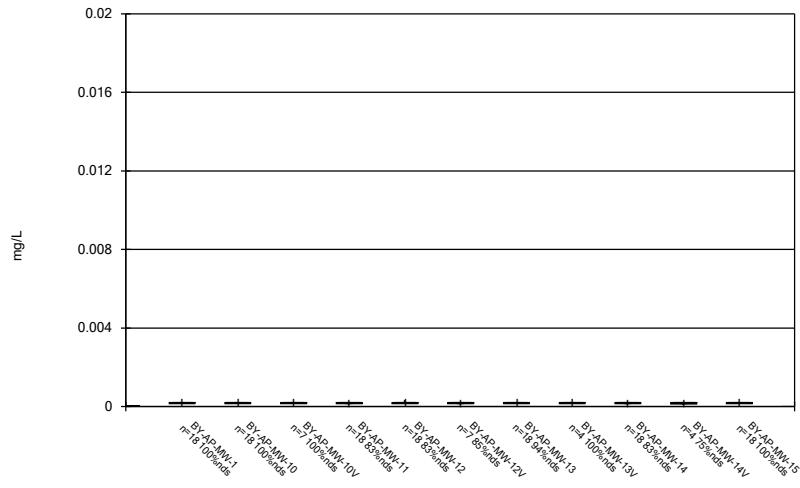
Constituent: Fluoride, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



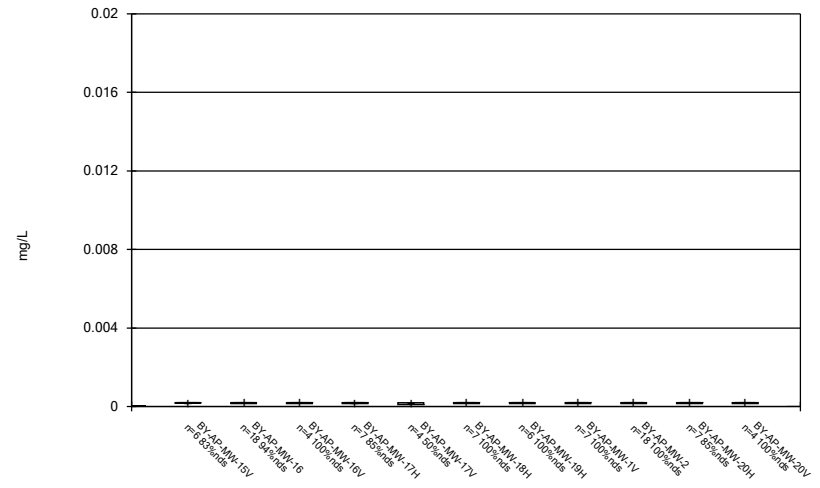
Constituent: Fluoride, total Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



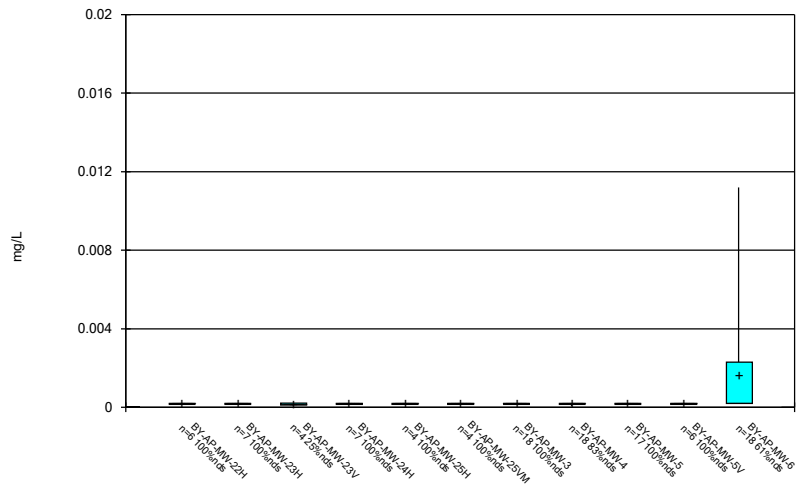
Constituent: Lead Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



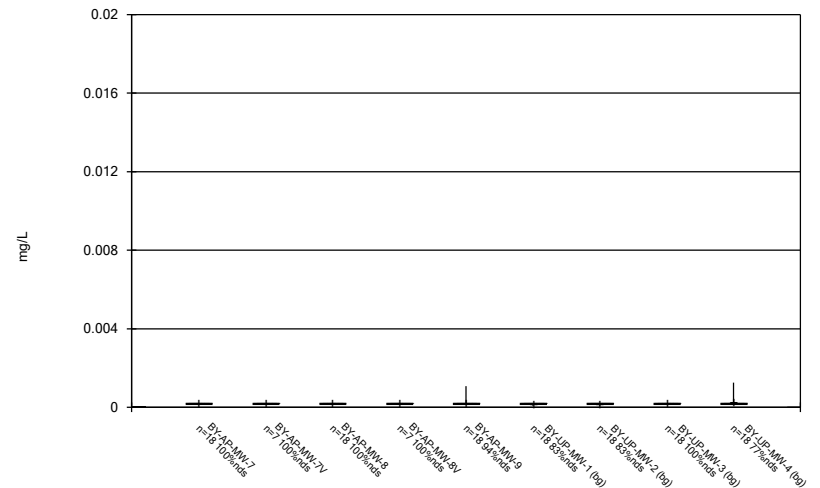
Constituent: Lead Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



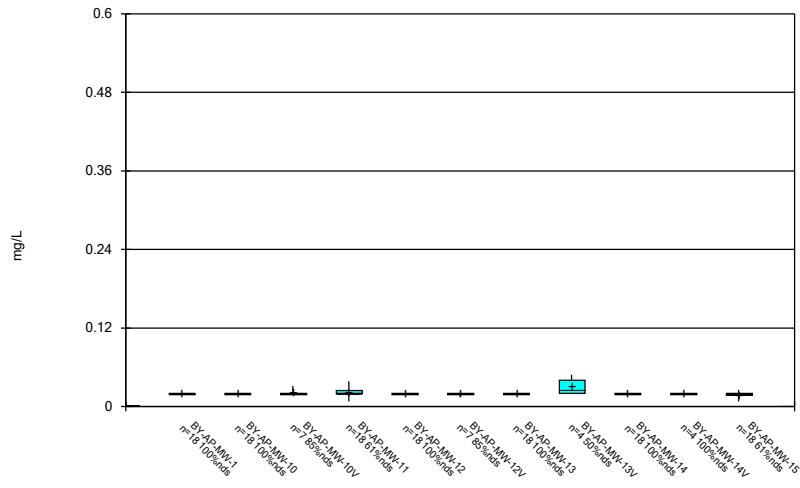
Constituent: Lead Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



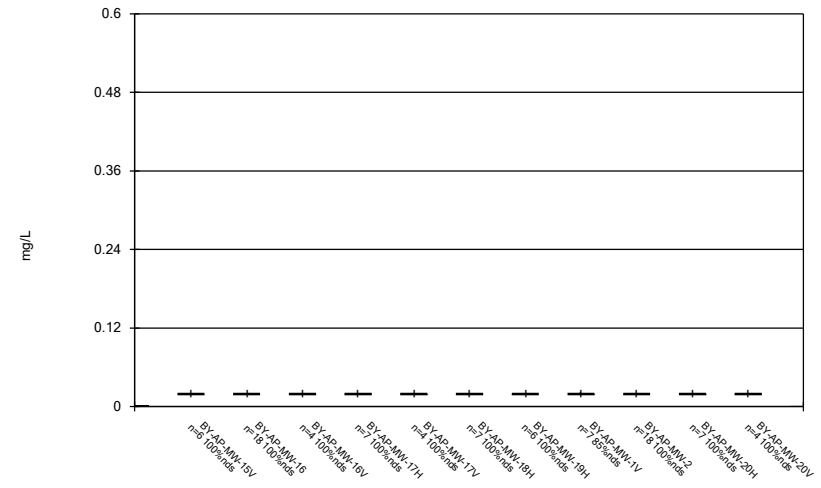
Constituent: Lead Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



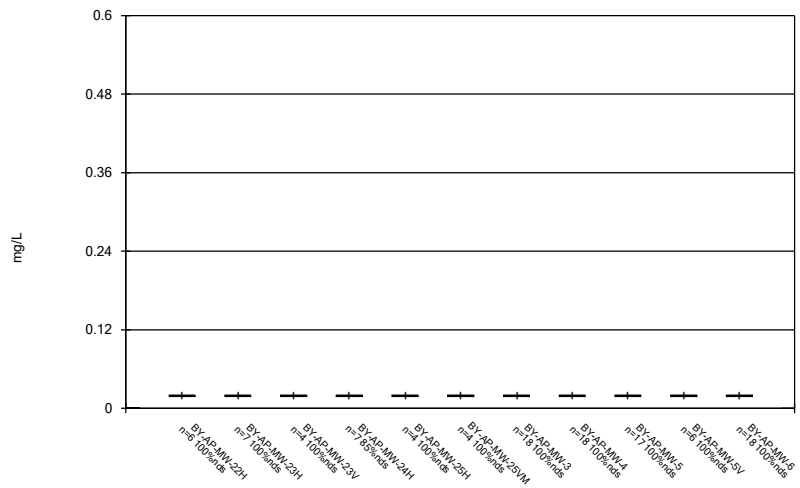
Constituent: Lithium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



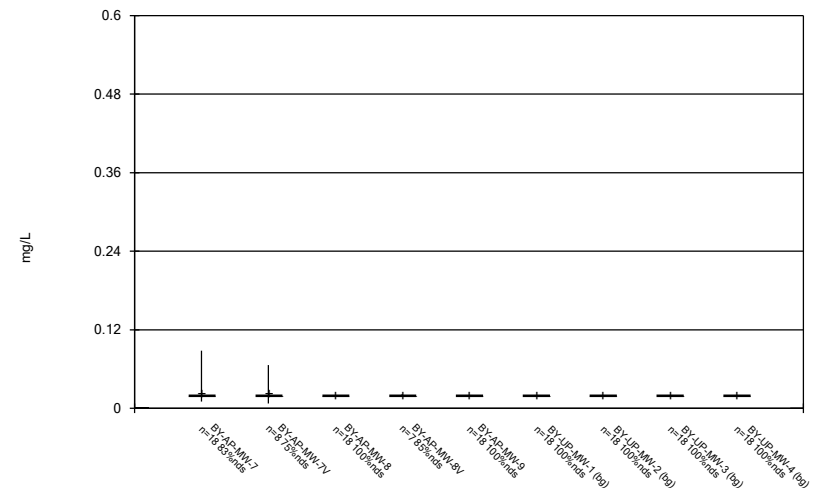
Constituent: Lithium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



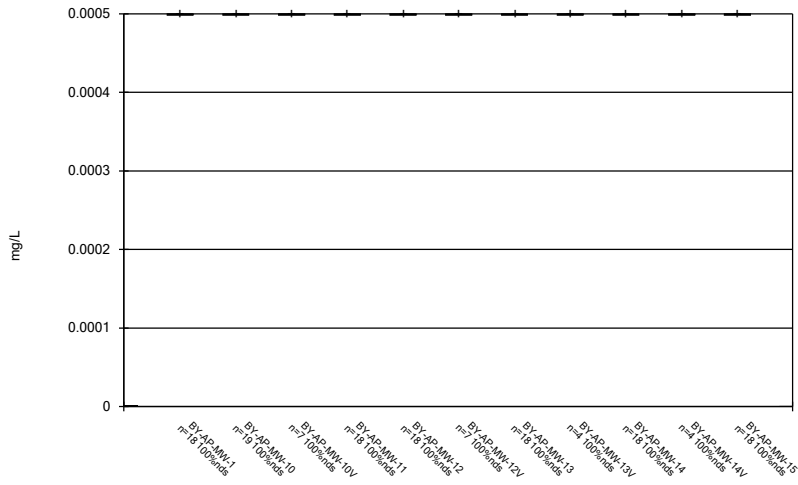
Constituent: Lithium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



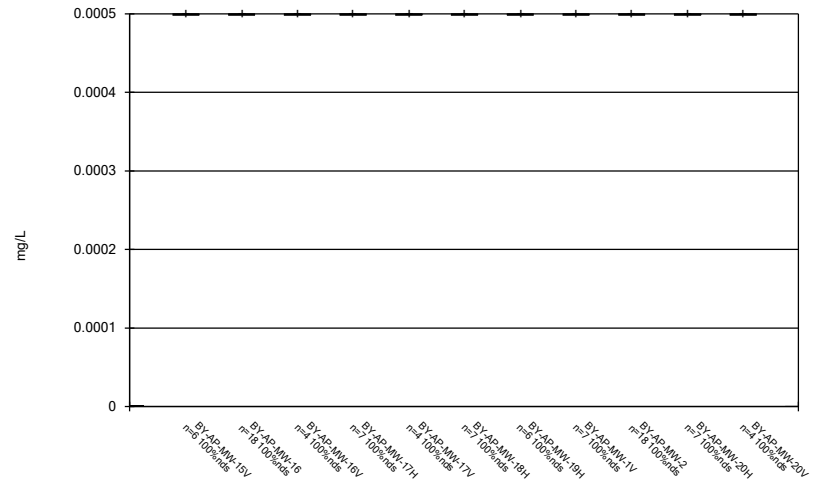
Constituent: Lithium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



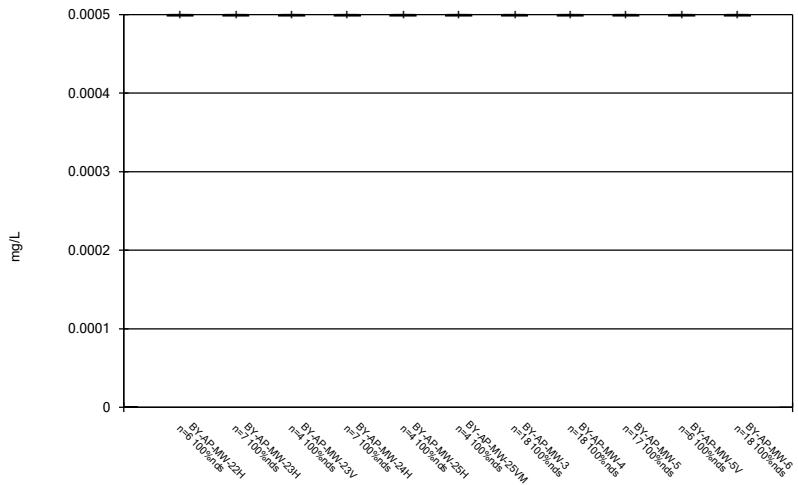
Constituent: Mercury Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



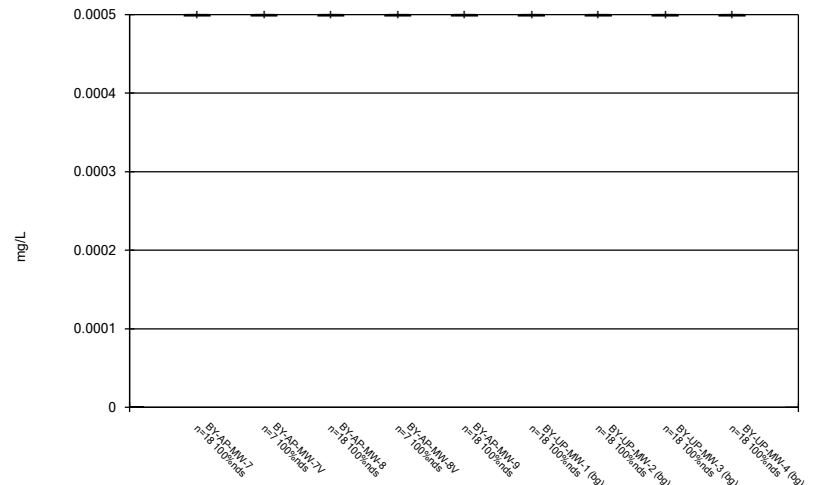
Constituent: Mercury Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



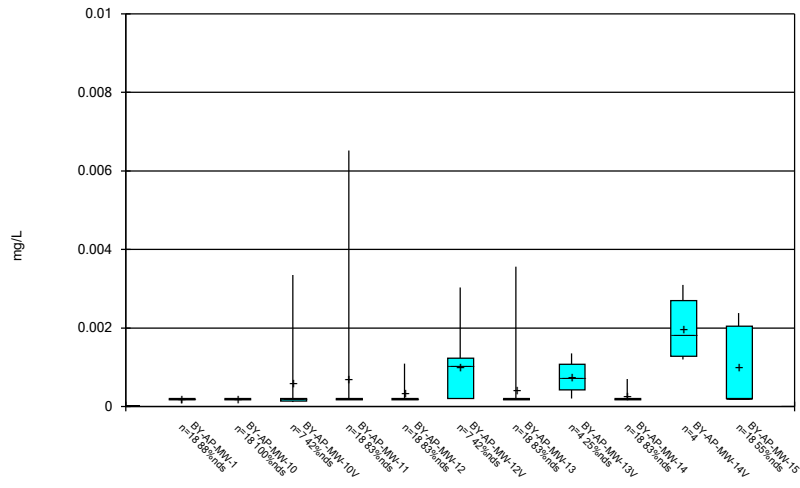
Constituent: Mercury Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



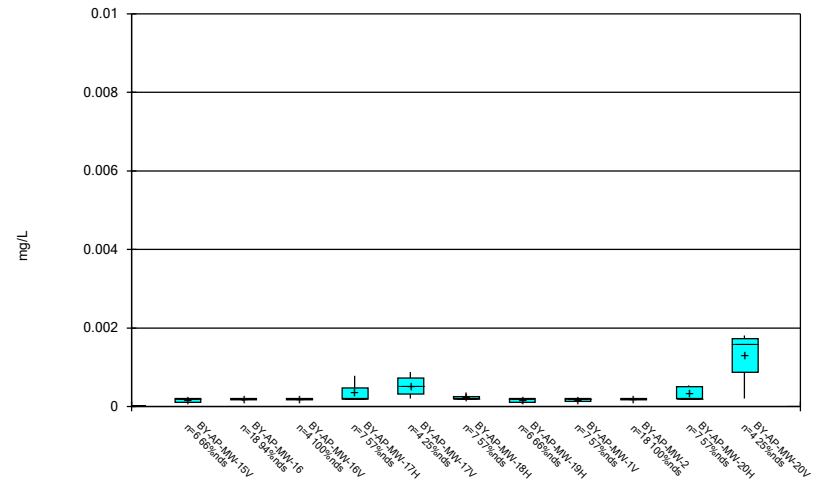
Constituent: Mercury Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



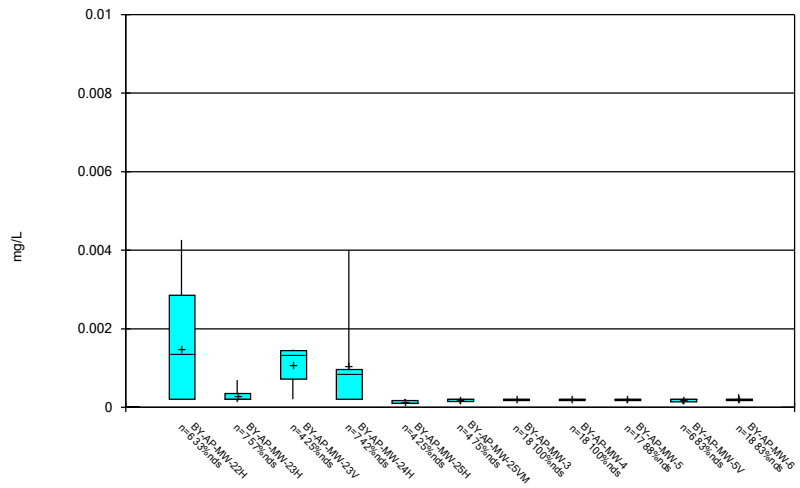
Constituent: Molybdenum Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



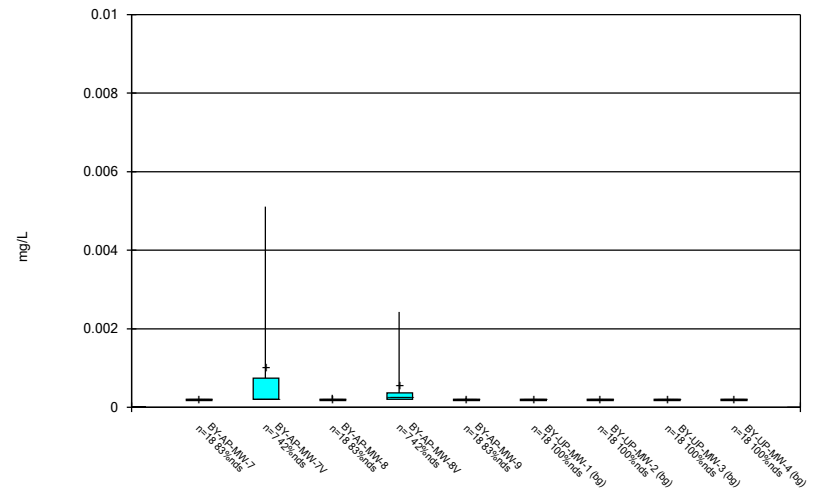
Constituent: Molybdenum Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



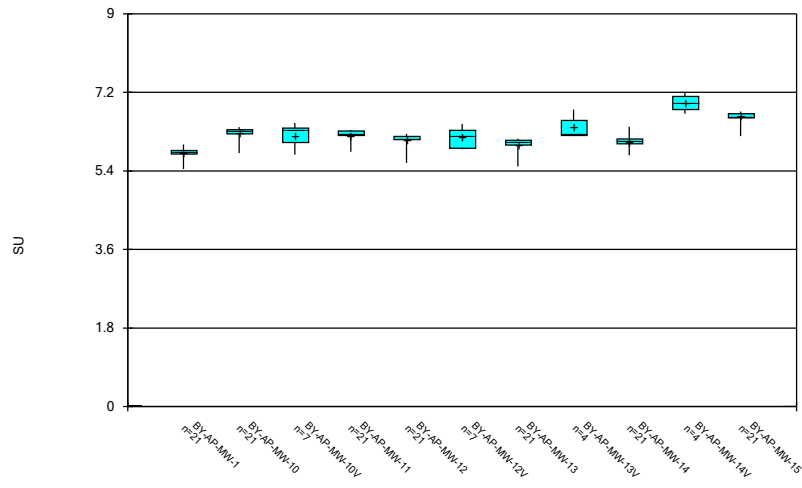
Constituent: Molybdenum Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



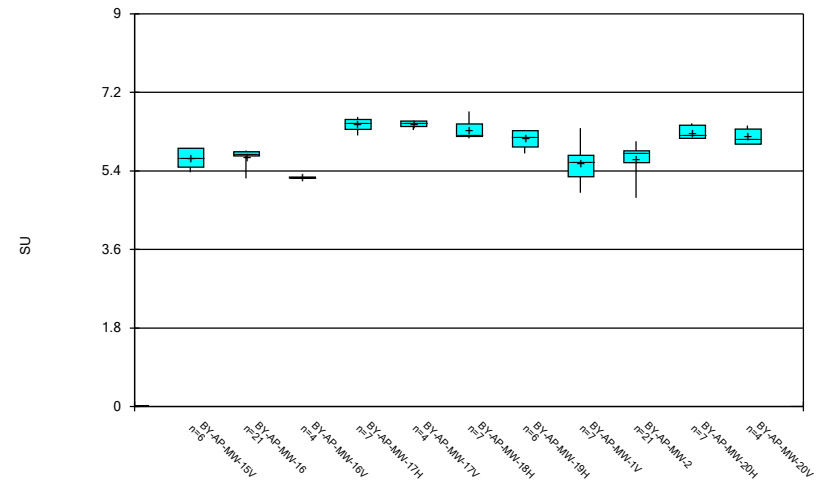
Constituent: Molybdenum Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



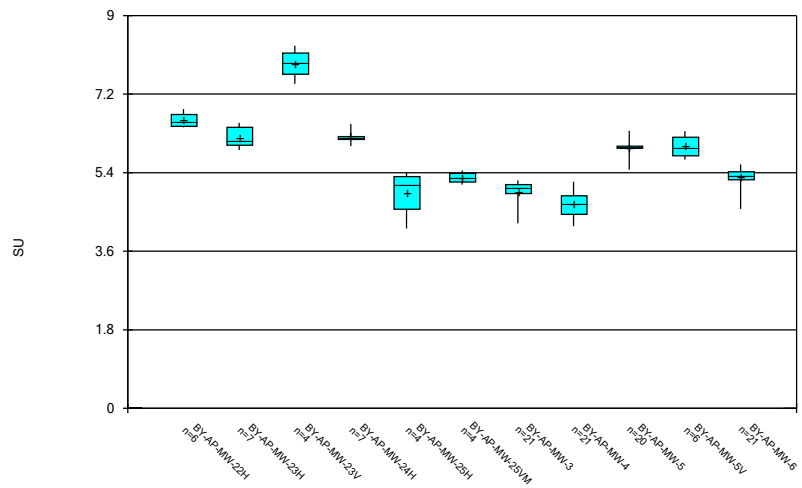
Constituent: pH, field Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



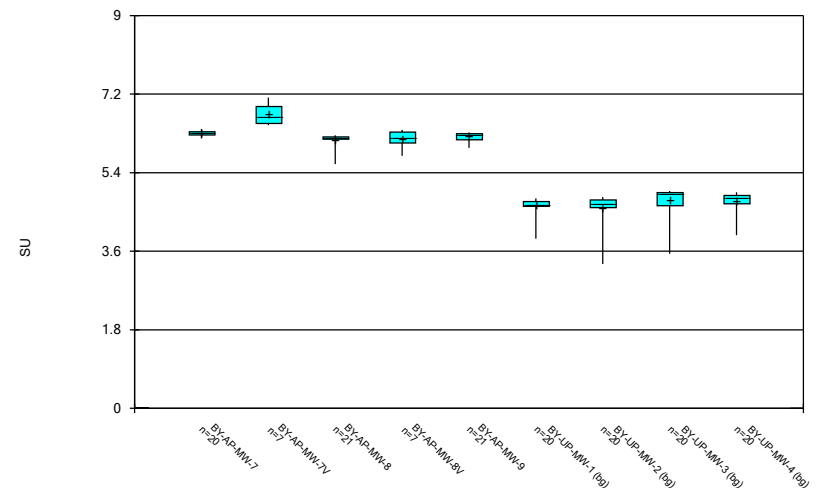
Constituent: pH, field Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



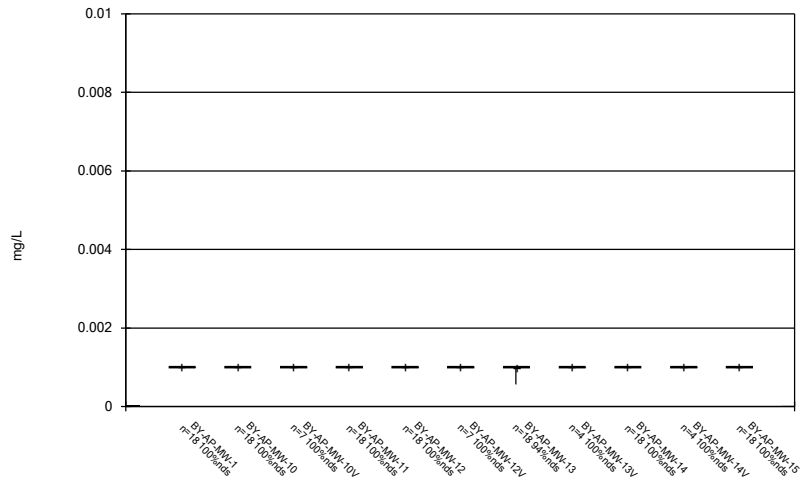
Constituent: pH, field Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



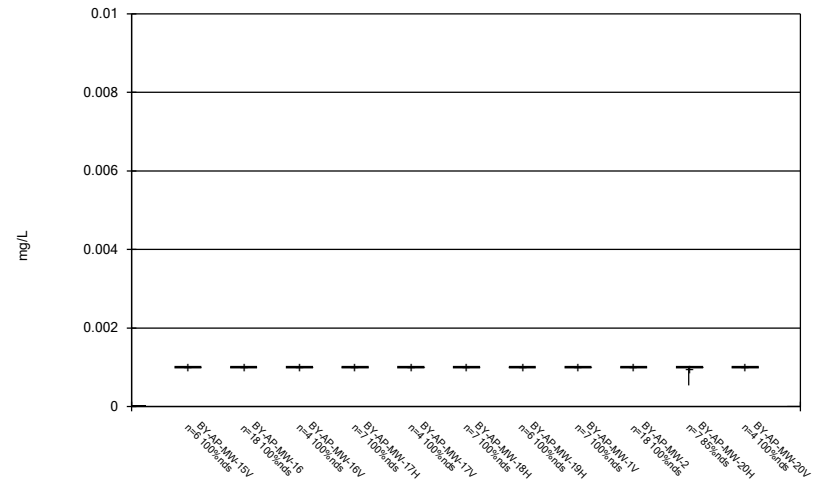
Constituent: pH, field Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



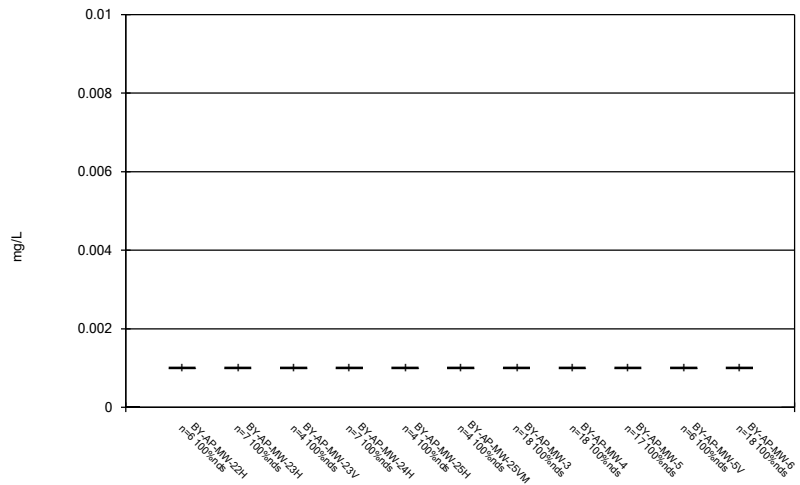
Constituent: Selenium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



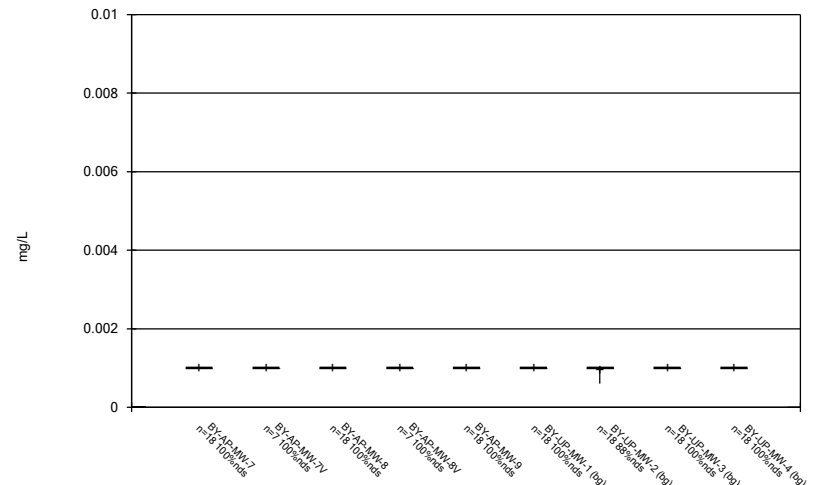
Constituent: Selenium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



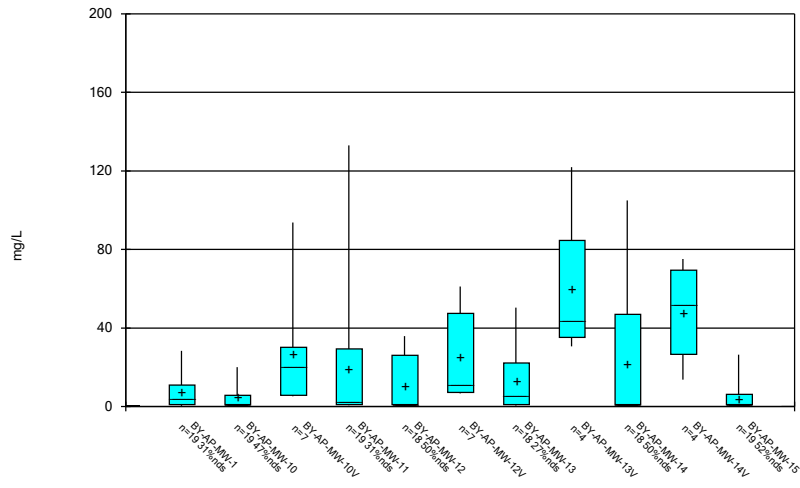
Constituent: Selenium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



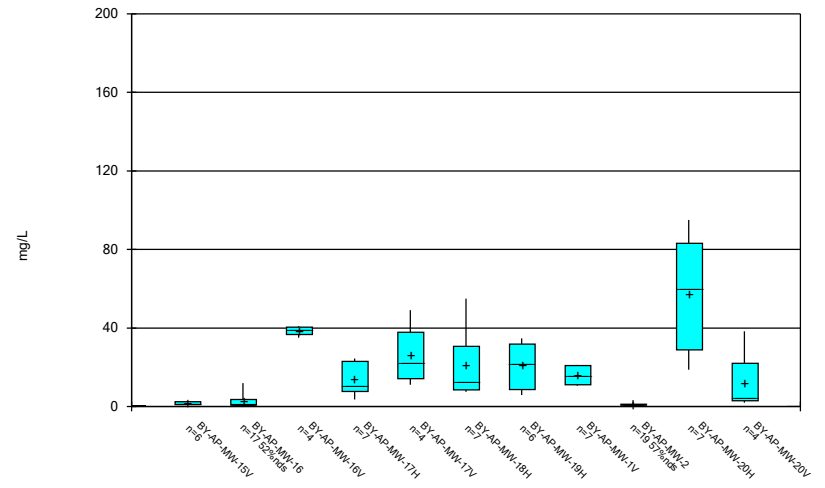
Constituent: Selenium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



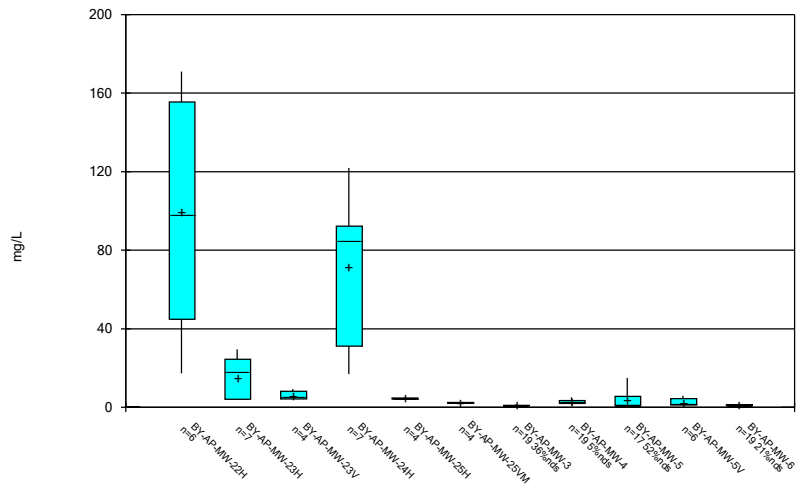
Constituent: Sulfate as SO4 Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



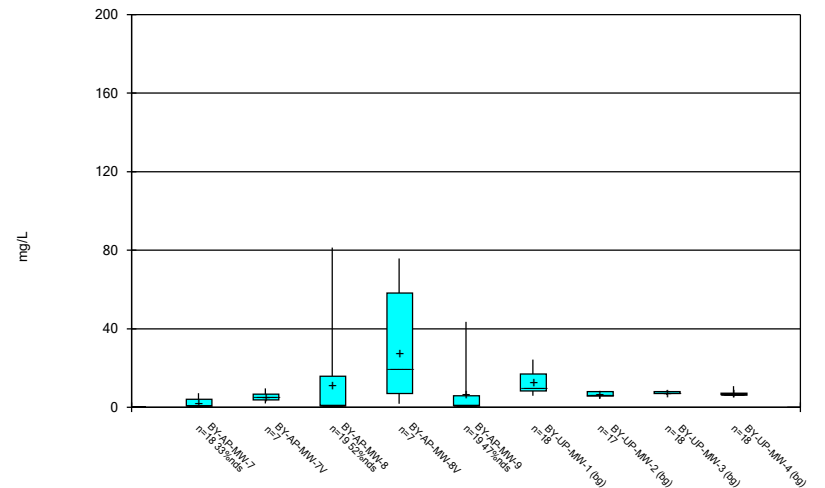
Constituent: Sulfate as SO4 Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



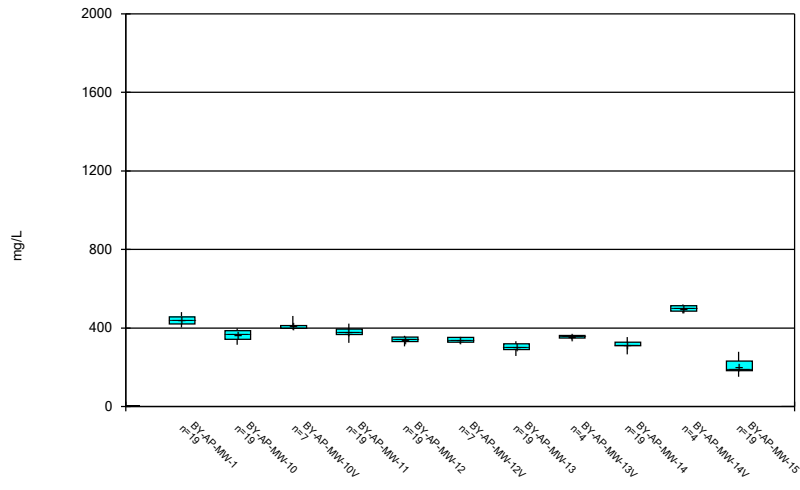
Constituent: Sulfate as SO4 Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



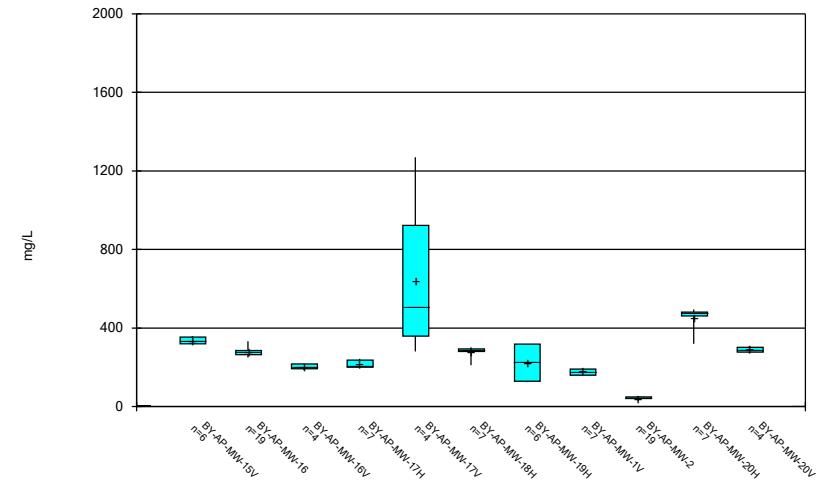
Constituent: Sulfate as SO4 Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



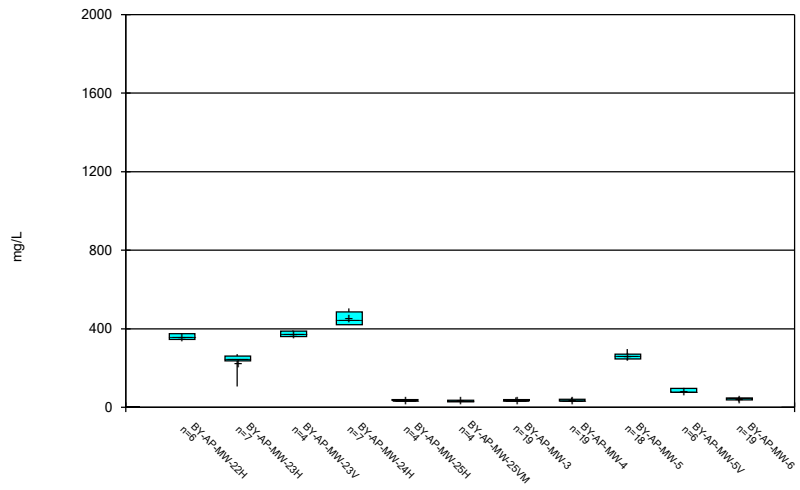
Constituent: TDS Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



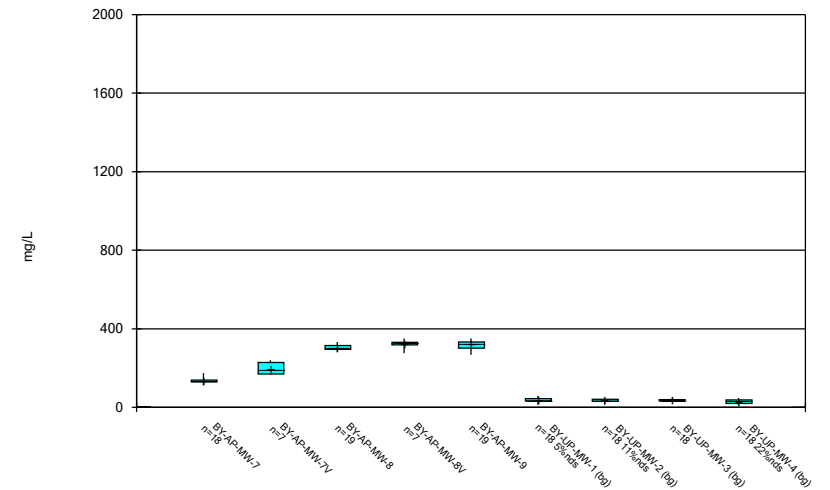
Constituent: TDS Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



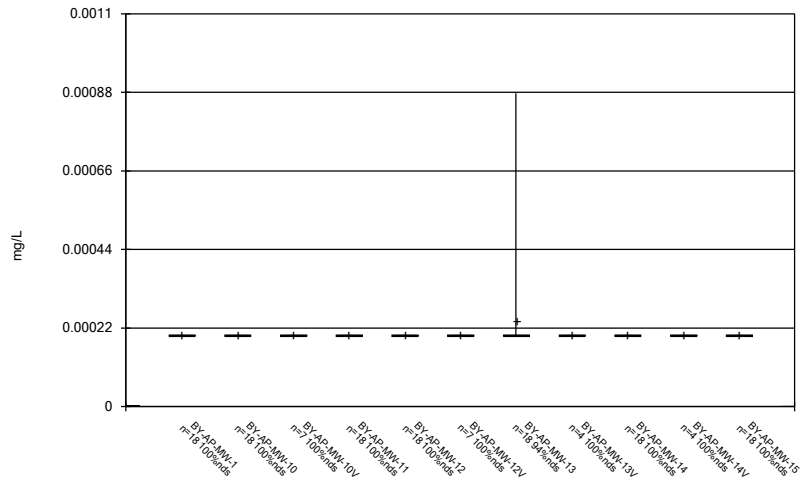
Constituent: TDS Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



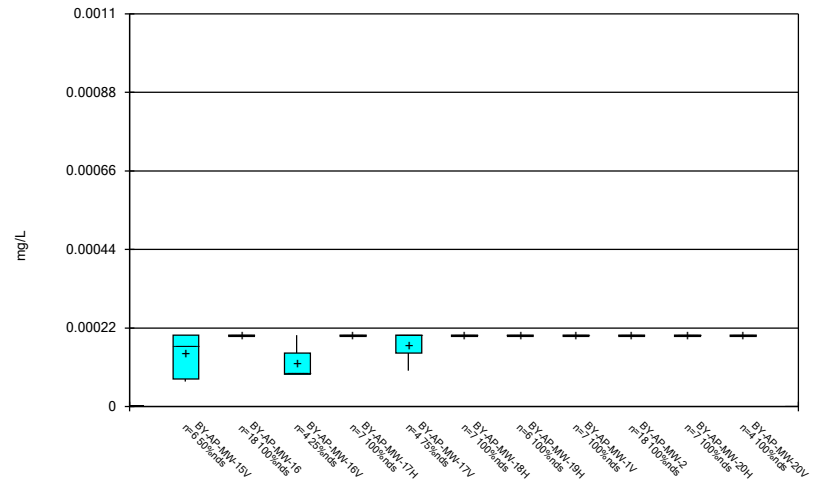
Constituent: TDS Analysis Run 7/21/2022 3:47 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



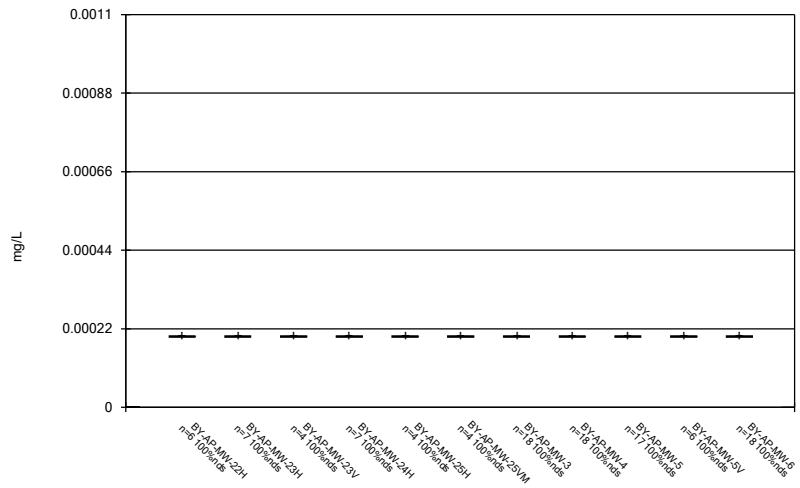
Constituent: Thallium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



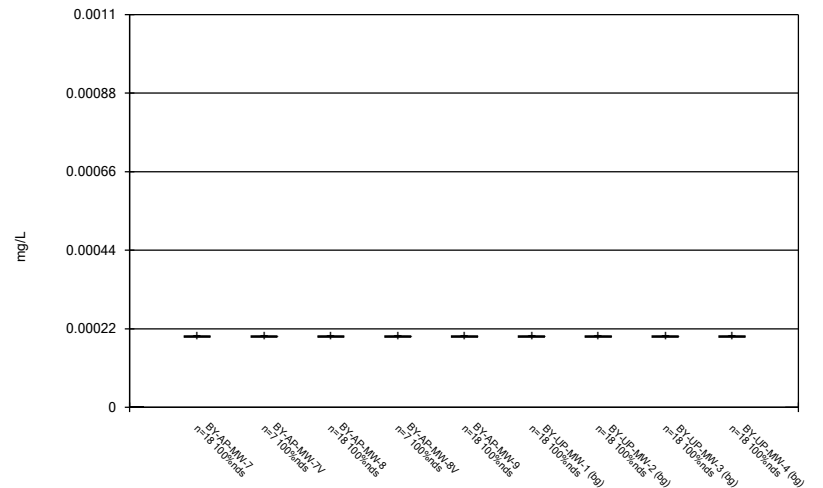
Constituent: Thallium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 7/21/2022 3:47 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE C.

Outlier Summary

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:09 PM

	BY-AP-MW-1 Chloride, Total (mg/L)	BY-AP-MW-4 Cobalt (mg/L)	BY-AP-MW-12 Sulfate as SO4 (mg/L)	BY-AP-MW-13 Sulfate as SO4 (mg/L)	BY-AP-MW-14 Sulfate as SO4 (mg/L)	BY-AP-MW-16 Sulfate as SO4 (mg/L)	BY-AP-MW-5 Sulfate as SO4 (mg/L)
3/2/2016	2.18 (O)						
4/19/2016	9.01 (O)						
1/31/2017	0.0127 (O)						
5/1/2018	0.0126 (O)						
11/28/2018	<50 (O)						
5/29/2019			49.5 (o)	67.6 (o)			
3/31/2020					17.5 (o)	23.7 (o)	
9/2/2020					13.3 (o)		

FIGURE D.

Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-1	5.91	5.47	5/24/2022	5.44	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-10	6.463	6.143	5/24/2022	5.81	Yes	19	6.303	0.06515	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-13	6.14	5.79	5/24/2022	5.5	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-2	6.2	5.161	5/24/2022	4.78	Yes	19	1094	156.3	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-6	5.694	4.846	5/25/2022	4.57	Yes	19	801.5	101.6	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.26	5.89	5/24/2022	5.6	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-1	4.882	4.49	5/31/2022	3.89	Yes	18	4.686	0.0786	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-2	5.032	4.318	5/31/2022	3.31	Yes	18	4.675	0.1431	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-3	4.98	4.4	5/31/2022	3.54	Yes	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-4	5.082	4.517	5/31/2022	3.97	Yes	18	4.799	0.1134	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-1	6.348	n/a	5/24/2022	21	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-10	5	n/a	5/24/2022	14.7	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-11	19.37	n/a	5/23/2022	29.3	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-12	7.04	n/a	5/23/2022	13	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-13	9.841	n/a	5/24/2022	38.3	Yes	12	3.818	2.151	41.67	Kaplan-Meier	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-14	61.6	n/a	5/25/2022	105	Yes	16	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-7	5	n/a	5/24/2022	7.14	Yes	16	n/a	n/a	37.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-8	6.01	n/a	5/24/2022	81.3	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2

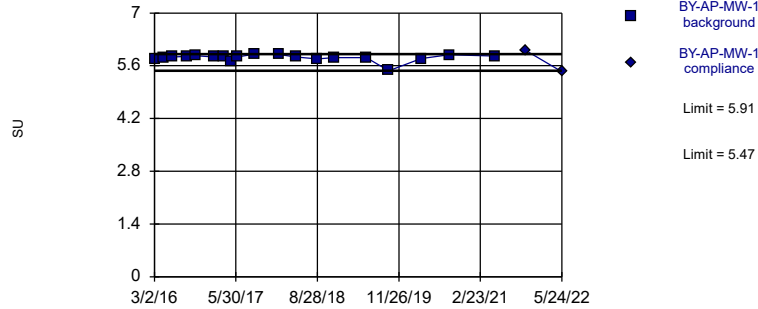
Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-1	5.91	5.47	5/24/2022	5.44	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-10	6.463	6.143	5/24/2022	5.81	Yes	19	6.303	0.06515	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-11	6.34	5.85	5/23/2022	6.32	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-12	6.25	5.58	5/23/2022	6.12	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-13	6.14	5.79	5/24/2022	5.5	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-14	6.14	5.76	5/25/2022	6.14	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-15	6.76	6.2	5/25/2022	6.68	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-16	5.87	5.23	5/25/2022	5.74	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-2	6.2	5.161	5/24/2022	4.78	Yes	19	1094	156.3	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-3	5.22	4.24	5/25/2022	4.64	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-4	5.355	3.955	5/25/2022	4.6	No	19	4.655	0.2846	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-5	6.03	5.47	5/25/2022	5.99	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-6	5.694	4.846	5/25/2022	4.57	Yes	19	801.5	101.6	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-7	6.432	6.166	5/24/2022	6.32	No	18	6.299	0.05346	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.26	5.89	5/24/2022	5.6	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-9	6.32	5.97	5/24/2022	6.03	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-1	4.882	4.49	5/31/2022	3.89	Yes	18	4.686	0.0786	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-2	5.032	4.318	5/31/2022	3.31	Yes	18	4.675	0.1431	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-3	4.98	4.4	5/31/2022	3.54	Yes	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-4	5.082	4.517	5/31/2022	3.97	Yes	18	4.799	0.1134	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-1	6.348	n/a	5/24/2022	21	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-10	5	n/a	5/24/2022	14.7	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-11	19.37	n/a	5/23/2022	29.3	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-12	7.04	n/a	5/23/2022	13	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-13	9.841	n/a	5/24/2022	38.3	Yes	12	3.818	2.151	41.67	Kaplan-Meier	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-14	61.6	n/a	5/25/2022	105	Yes	16	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-15	7.61	n/a	5/25/2022	1.8J	No	17	n/a	n/a	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-16	6.72	n/a	5/25/2022	6.29	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-2	3.3	n/a	5/24/2022	0.615J	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-3	5	n/a	5/25/2022	1.41J	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-4	5.778	n/a	5/25/2022	1.97J	No	17	2.878	1.149	5.882	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-5	11	n/a	5/25/2022	5.53	No	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-6	3.037	n/a	5/25/2022	1.27J	No	17	0.01145	0.4356	23.53	Kaplan-Meier	ln(x)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-7	5	n/a	5/24/2022	7.14	Yes	16	n/a	n/a	37.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-8	6.01	n/a	5/24/2022	81.3	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-9	5.91	n/a	5/24/2022	5.76	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-1	31.7	n/a	5/31/2022	12.8	No	16	3.458	0.85	0	None	sqrt(x)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-2	9.774	n/a	5/31/2022	8.09	No	15	6.454	1.269	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-3	9.087	n/a	5/31/2022	7.02	No	16	7.496	0.6224	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-4	10.8	n/a	5/31/2022	7.94	No	16	n/a	n/a	0	n/a	n/a	0.006456	NP Intra (normality) 1 of 2

Exceeds Limits

Prediction Limit Intrawell Non-parametric

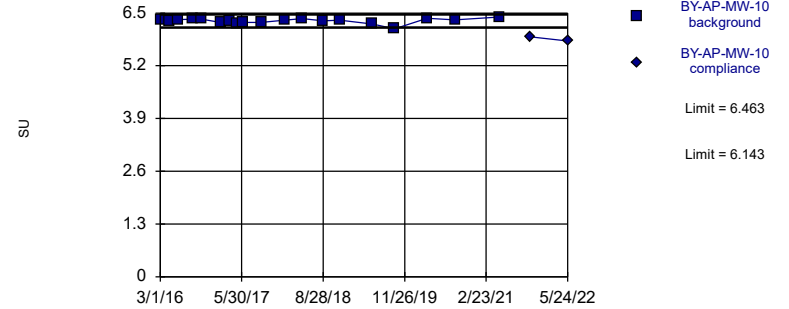


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

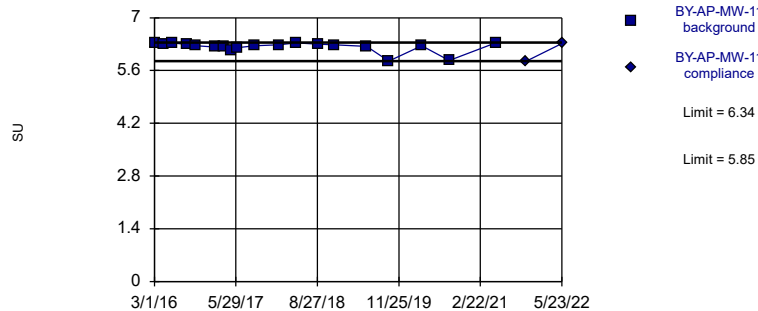


Background Data Summary: Mean=6.303, Std. Dev.=0.06515, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8965, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

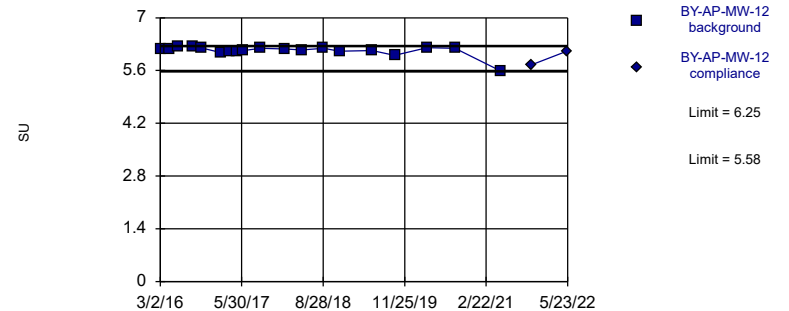


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

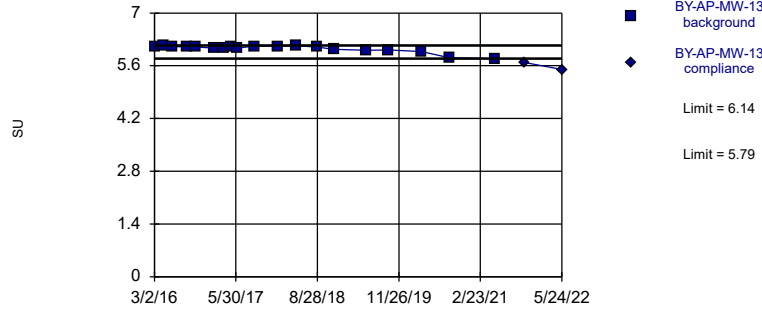


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Non-parametric

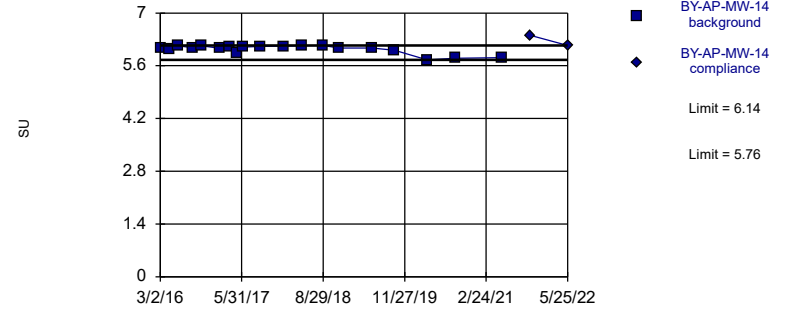


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

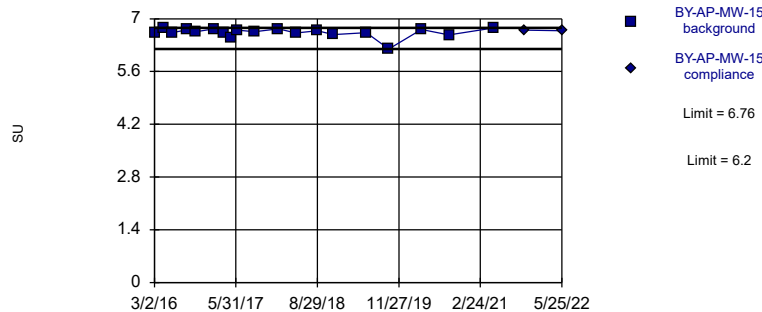


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

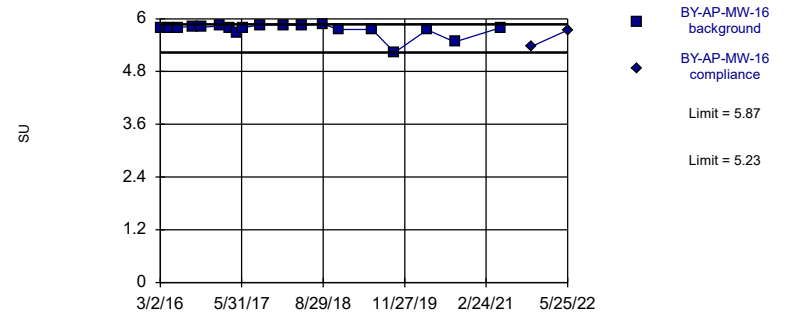


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

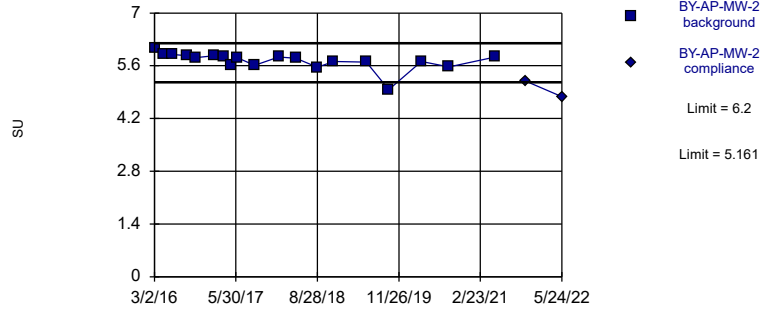


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Parametric

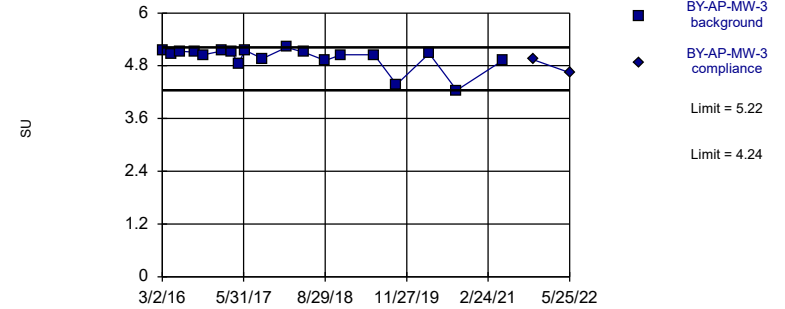


Background Data Summary (based on x^4 transformation): Mean=1094, Std. Dev.=156.3, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8685, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

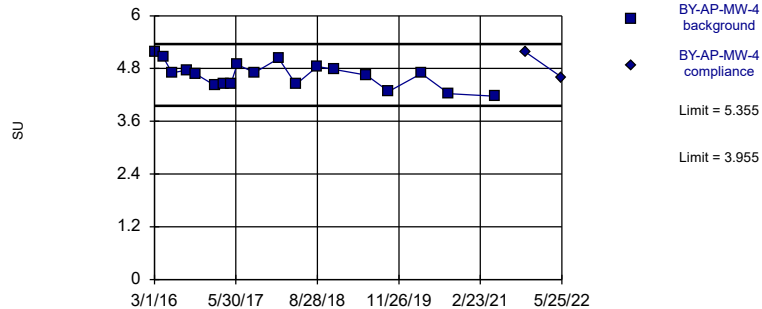


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

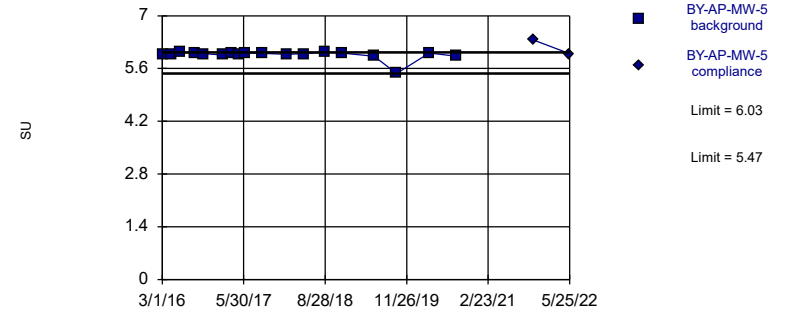


Background Data Summary: Mean=4.655, Std. Dev.=0.2846, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.972, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

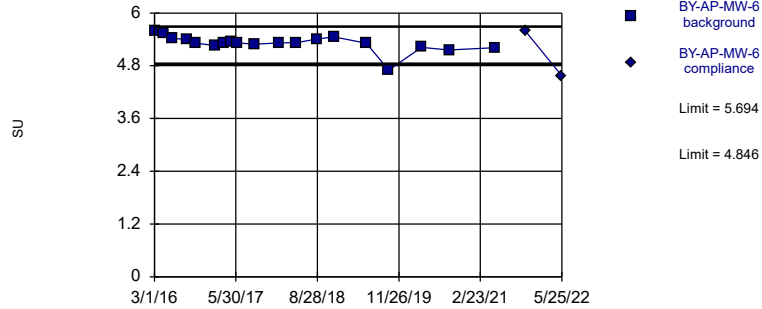


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

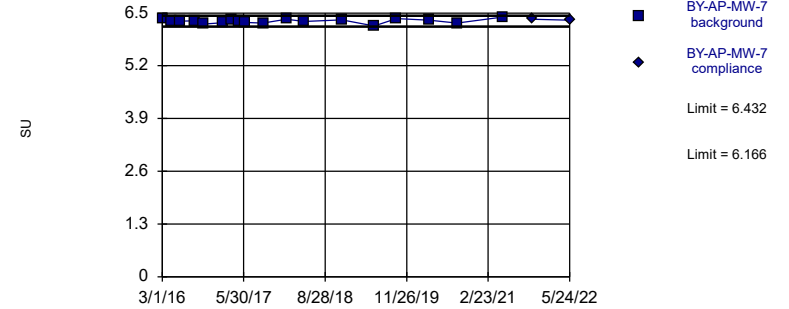


Background Data Summary (based on x^4 transformation): Mean=801.5, Std. Dev.=101.6, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8738, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

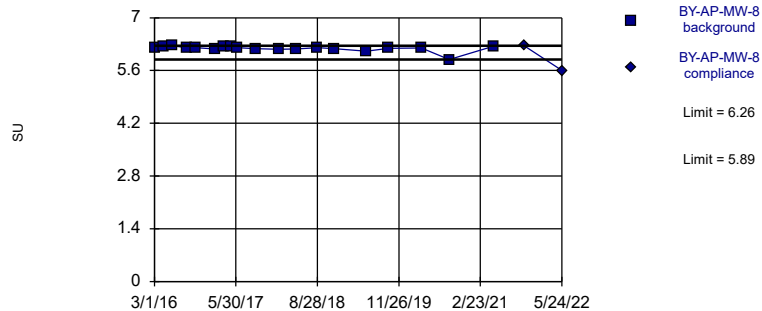


Background Data Summary: Mean=6.299, Std. Dev.=0.05346, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9863, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Non-parametric

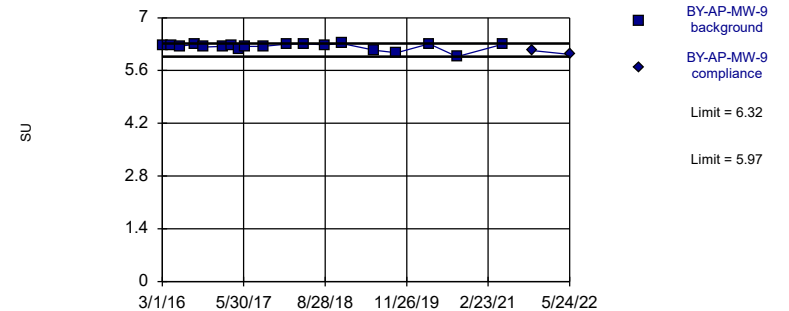


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Non-parametric

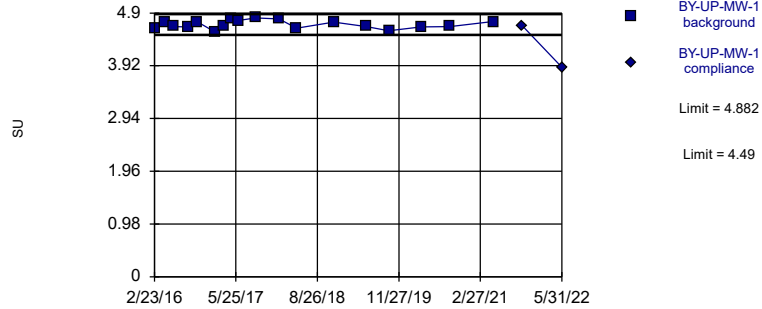


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

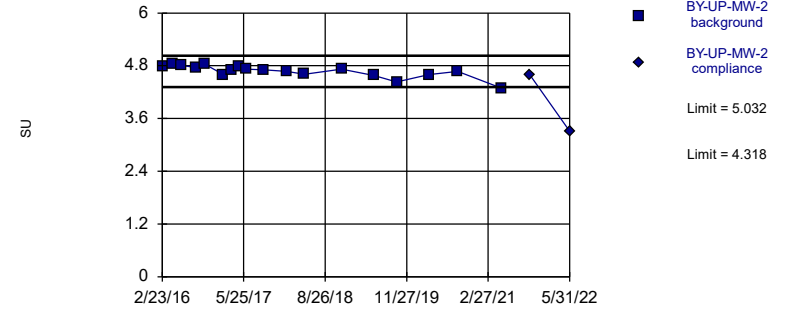


Background Data Summary: Mean=4.686, Std. Dev.=0.0786, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

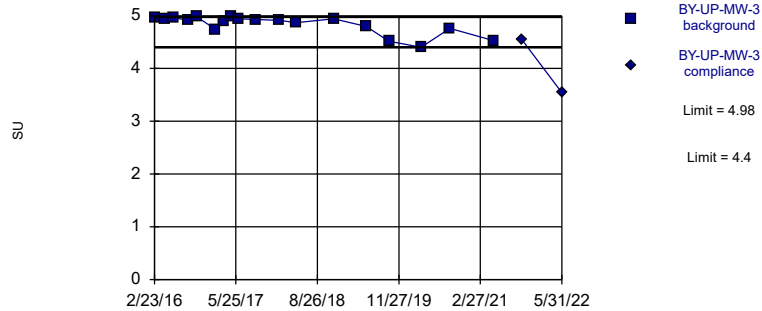


Background Data Summary: Mean=4.675, Std. Dev.=0.1431, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8886, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Non-parametric

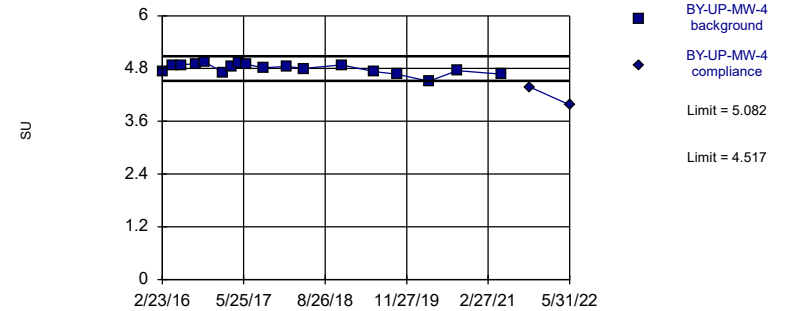


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

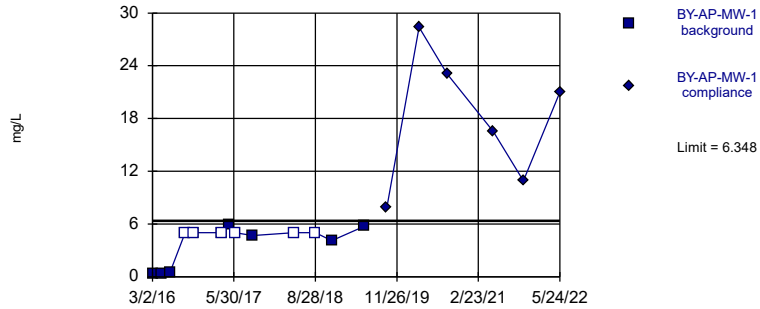


Background Data Summary: Mean=4.799, Std. Dev.=0.1134, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Parametric

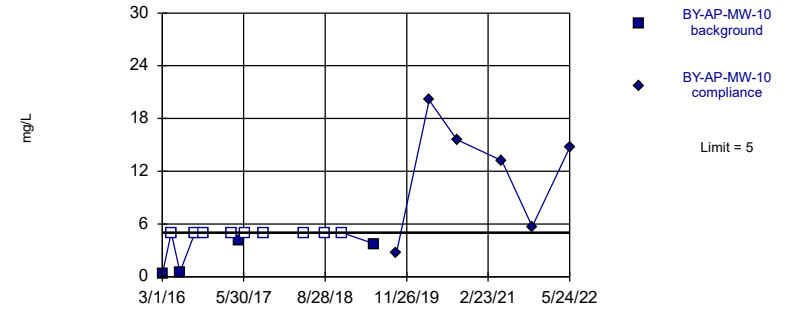


Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=52.17, Std. Dev.=74.33, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8687, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

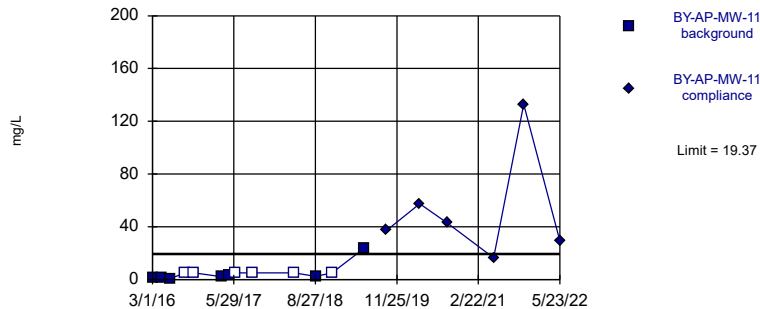


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Parametric

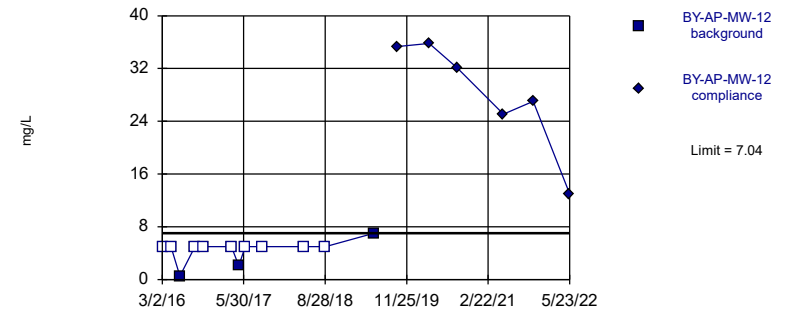


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.308, Std. Dev.=0.5028, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8281, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

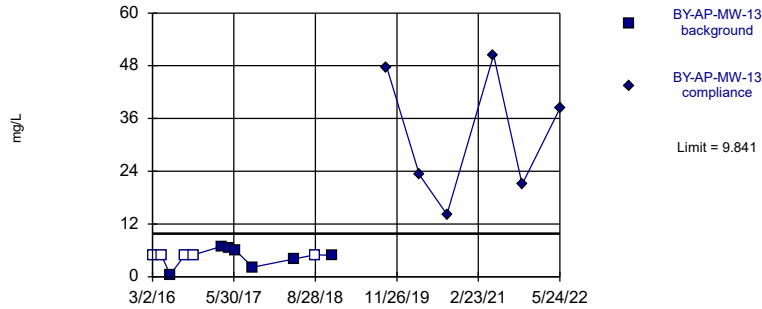


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Parametric

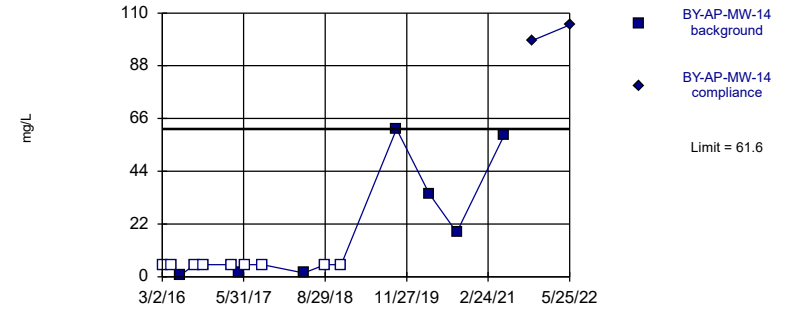


Background Data Summary (after Kaplan-Meier Adjustment): Mean=3.818, Std. Dev.=2.151, n=12, 41.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.805. Kappa = 2.8 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

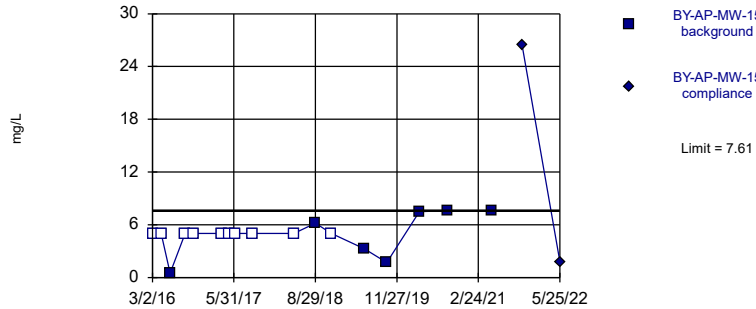


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Within Limit

Prediction Limit
 Intrawell Non-parametric

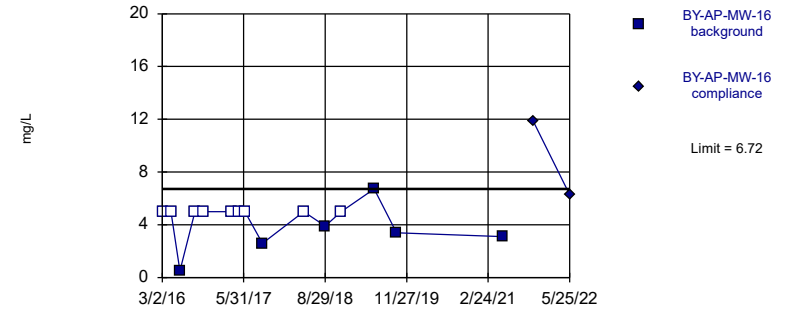


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
 Hollow symbols indicate censored values.
 Within Limit

Prediction Limit
 Intrawell Non-parametric

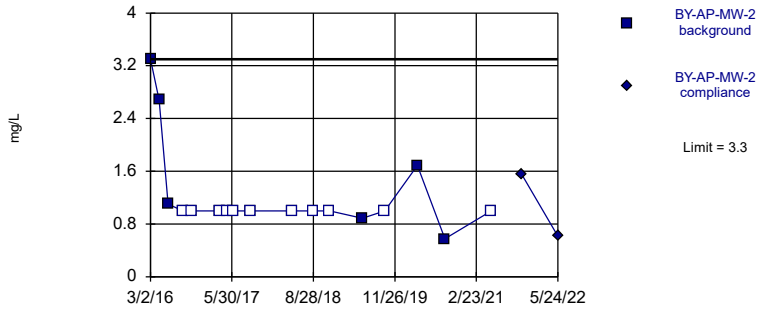


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

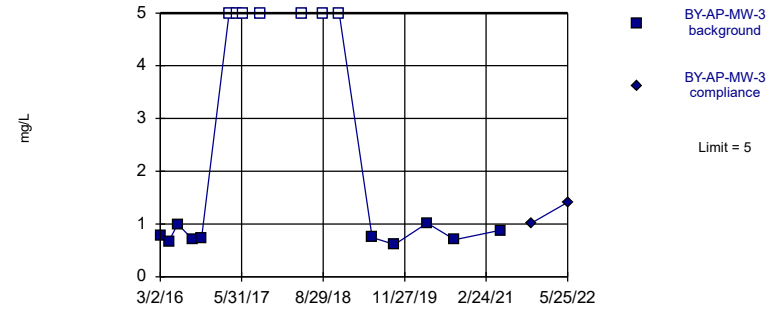


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 64.71% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

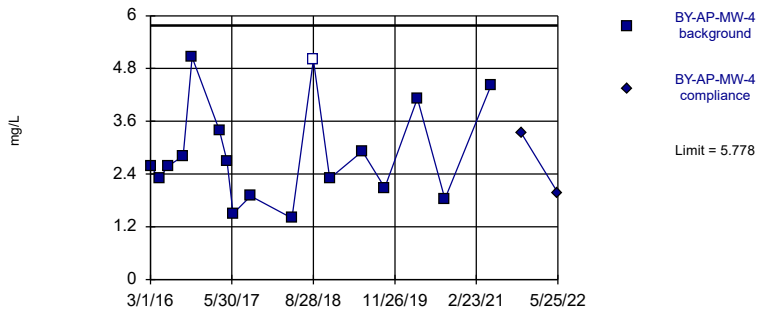


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 41.18% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Parametric

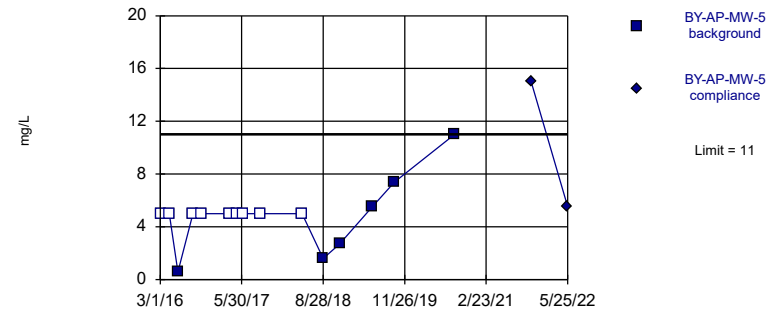


Background Data Summary: Mean=2.878, Std. Dev.=1.149, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.851. Kappa = 2.524 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Intrawell Non-parametric

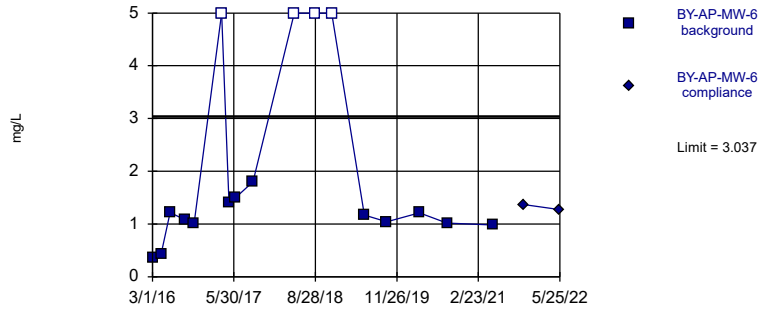


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Parametric

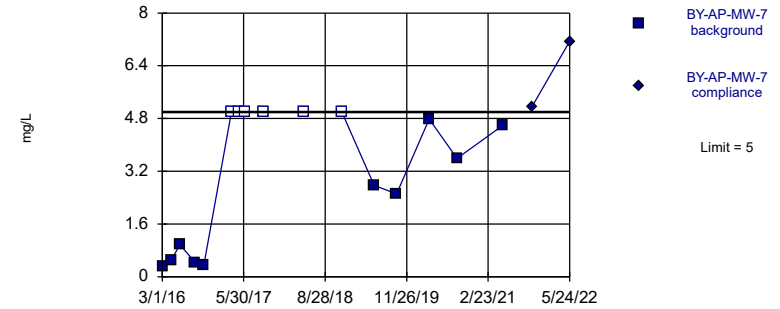


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=0.01145, Std. Dev.=0.4356, n=17, 23.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8672, critical = 0.851. Kappa = 2.524 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

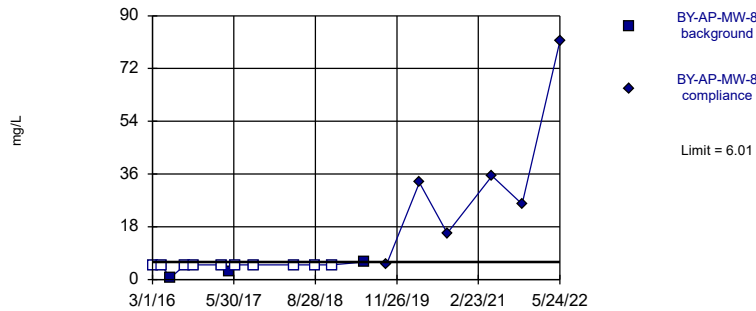


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

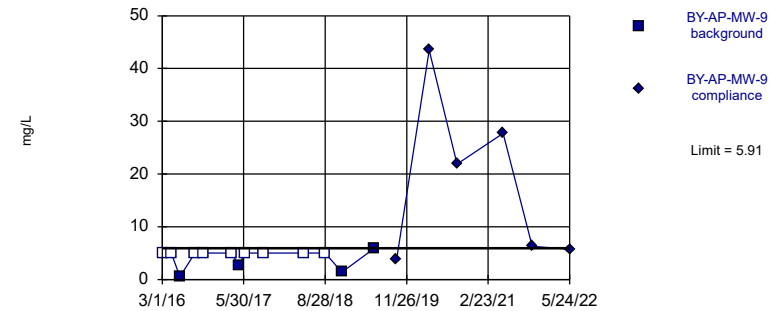


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Non-parametric

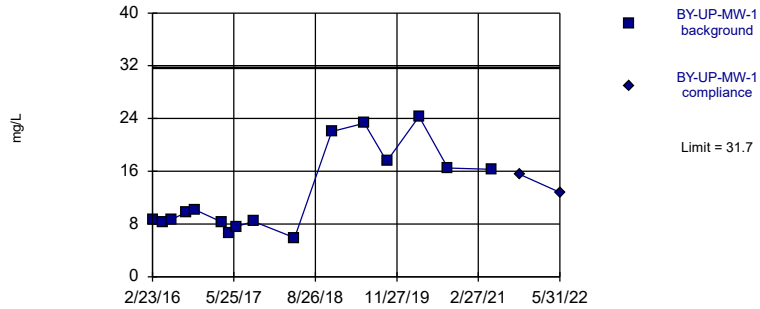


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Parametric

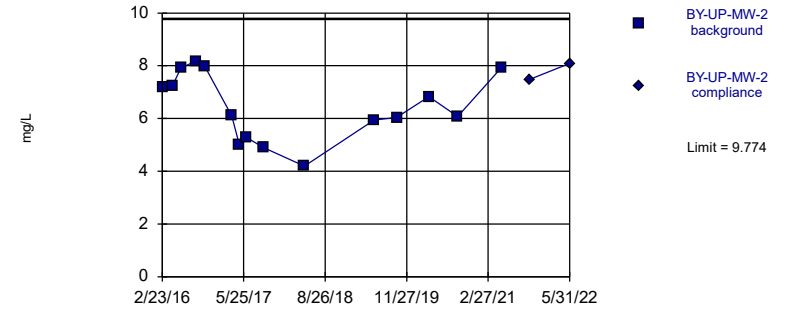


Background Data Summary (based on square root transformation): Mean=3.458, Std. Dev.=0.85, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8598, critical = 0.844. Kappa = 2.556 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Parametric

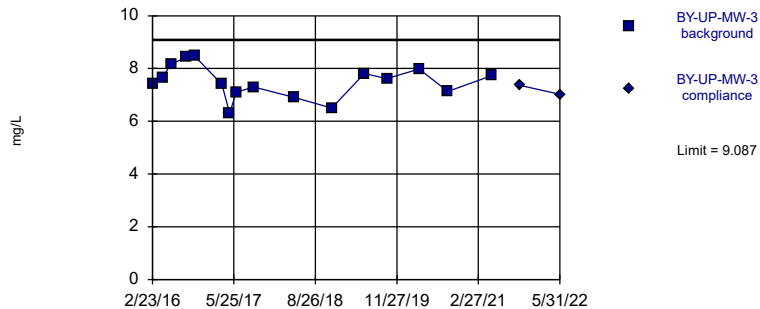


Background Data Summary: Mean=6.454, Std. Dev.=1.269, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.937, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Parametric

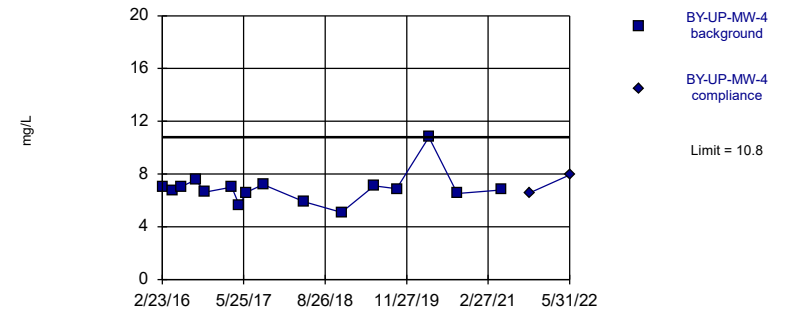


Background Data Summary: Mean=7.496, Std. Dev.=0.6224, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9756, critical = 0.844. Kappa = 2.556 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:20 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-1
3/2/2016	5.78	
4/19/2016	5.8	
6/8/2016	5.83	
8/31/2016	5.85	
10/19/2016	5.87	
1/31/2017	5.83	
3/21/2017	5.83	
5/2/2017	5.73	
6/6/2017	5.83	
9/13/2017	5.91	
1/24/2018	5.9	
5/1/2018	5.83	
8/28/2018	5.78	
11/28/2018	5.82	
5/29/2019	5.82	
10/1/2019	5.47	
3/30/2020	5.79	
9/1/2020	5.89	
5/18/2021	5.86	
11/1/2021		6.01
5/24/2022		5.44

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-10
3/1/2016	6.33	
4/20/2016	6.31	
6/8/2016	6.34	
8/31/2016	6.35	
10/19/2016	6.35	
2/1/2017	6.27	
3/22/2017	6.29	
5/3/2017	6.23	
6/7/2017	6.27	
9/14/2017	6.27	
1/23/2018	6.32	
5/2/2018	6.36	
8/28/2018	6.31	
11/28/2018	6.32	
5/30/2019	6.23	
9/30/2019	6.11	
3/31/2020	6.37	
9/1/2020	6.33	
5/11/2021	6.4	
10/27/2021		5.91
5/24/2022		5.81

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-11
3/1/2016	6.34	
4/20/2016	6.31	
6/8/2016	6.33	
8/31/2016	6.29	
10/19/2016	6.26	
2/1/2017	6.22	
3/22/2017	6.22	
5/3/2017	6.15	
6/7/2017	6.21	
9/13/2017	6.26	
1/23/2018	6.28	
5/2/2018	6.33	
8/29/2018	6.3	
11/28/2018	6.28	
5/29/2019	6.24	
9/30/2019	5.85	
3/31/2020	6.26	
9/1/2020	5.87	
5/19/2021	6.33	
11/2/2021		5.84
5/23/2022		6.32

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-12
3/2/2016	6.16	
4/20/2016	6.17	
6/8/2016	6.25	
8/31/2016	6.23	
10/19/2016	6.2	
2/1/2017	6.08	
3/22/2017	6.12	
5/3/2017	6.12	
6/7/2017	6.13	
9/13/2017	6.19	
1/23/2018	6.17	
5/2/2018	6.15	
8/29/2018	6.19	
11/28/2018	6.11	
5/29/2019	6.13	
10/1/2019	6	
3/31/2020	6.21	
9/1/2020	6.19	
5/18/2021	5.58	
11/1/2021		5.75
5/23/2022		6.12

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13
3/2/2016	6.1	
4/20/2016	6.14	
6/8/2016	6.11	
8/31/2016	6.1	
10/19/2016	6.1	
1/31/2017	6.07	
3/22/2017	6.07	
5/3/2017	6.1	
6/7/2017	6.07	
9/13/2017	6.12	
1/22/2018	6.12	
5/2/2018	6.13	
8/29/2018	6.1	
11/28/2018	6.04	
5/29/2019	6.01	
10/1/2019	6.02	
3/31/2020	5.98	
9/1/2020	5.82	
5/19/2021	5.79	
10/26/2021		5.69
5/24/2022		5.5

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-14
3/2/2016	6.08	
4/20/2016	6.04	
6/8/2016	6.13	
8/30/2016	6.08	
10/18/2016	6.13	
1/31/2017	6.06	
3/22/2017	6.09	
5/2/2017	5.94	
6/6/2017	6.1	
9/13/2017	6.11	
1/23/2018	6.12	
5/2/2018	6.13	
8/29/2018	6.14	
11/27/2018	6.07	
5/29/2019	6.07	
10/1/2019	6.01	
3/31/2020	5.76	
9/2/2020	5.8	
5/25/2021	5.82	
10/27/2021		6.41
5/25/2022		6.14

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-15
3/2/2016	6.61	
4/19/2016	6.75	
6/8/2016	6.63	
8/31/2016	6.71	
10/19/2016	6.66	
1/31/2017	6.73	
3/21/2017	6.62	
5/2/2017	6.49	
6/6/2017	6.7	
9/13/2017	6.66	
1/22/2018	6.73	
5/1/2018	6.62	
8/29/2018	6.68	
11/27/2018	6.58	
5/29/2019	6.63	
10/1/2019	6.2	
4/1/2020	6.72	
9/2/2020	6.57	
5/11/2021	6.76	
10/26/2021		6.7
5/25/2022		6.68

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16
3/2/2016	5.79	
4/19/2016	5.78	
6/8/2016	5.8	
8/31/2016	5.83	
10/19/2016	5.81	
1/31/2017	5.84	
3/21/2017	5.79	
5/2/2017	5.68	
6/6/2017	5.8	
9/13/2017	5.86	
1/23/2018	5.86	
5/1/2018	5.85	
8/29/2018	5.87	
11/27/2018	5.76	
5/29/2019	5.76	
10/1/2019	5.23	
3/31/2020	5.75	
9/2/2020	5.47	
5/19/2021	5.8	
11/1/2021		5.36
5/25/2022		5.74

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-2
3/2/2016	6.08	
4/19/2016	5.92	
6/8/2016	5.9	
8/31/2016	5.87	
10/19/2016	5.82	
1/31/2017	5.87	
3/21/2017	5.85	
5/2/2017	5.61	
6/6/2017	5.82	
9/12/2017	5.61	
1/24/2018	5.83	
5/1/2018	5.8	
8/28/2018	5.56	
11/27/2018	5.71	
5/29/2019	5.7	
10/1/2019	4.97	
3/31/2020	5.71	
8/31/2020	5.57	
5/18/2021	5.83	
11/1/2021		5.2
5/24/2022		4.78

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-3
3/2/2016	5.14	
4/19/2016	5.06	
6/7/2016	5.13	
8/31/2016	5.11	
10/19/2016	5.05	
1/31/2017	5.14	
3/21/2017	5.13	
5/2/2017	4.85	
6/6/2017	5.15	
9/12/2017	4.96	
1/24/2018	5.22	
5/1/2018	5.11	
8/28/2018	4.92	
11/27/2018	5.05	
5/29/2019	5.05	
10/1/2019	4.37	
3/31/2020	5.08	
9/1/2020	4.24	
5/18/2021	4.93	
11/1/2021		4.94
5/25/2022		4.64

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-4
3/1/2016	5.19	
4/19/2016	5.06	
6/7/2016	4.7	
8/30/2016	4.77	
10/19/2016	4.67	
1/31/2017	4.42	
3/21/2017	4.45	
5/2/2017	4.46	
6/6/2017	4.89	
9/12/2017	4.71	
1/24/2018	5.03	
5/1/2018	4.44	
8/28/2018	4.85	
11/27/2018	4.78	
5/29/2019	4.65	
10/1/2019	4.28	
3/31/2020	4.69	
9/1/2020	4.23	
5/18/2021	4.17	
11/1/2021		5.18
5/25/2022		4.6

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5
3/1/2016	5.99	
4/20/2016	5.96	
6/7/2016	6.03	
8/30/2016	6	
10/18/2016	5.99	
1/31/2017	5.96	
3/22/2017	6.01	
5/3/2017	5.99	
6/7/2017	6.01	
9/14/2017	6	
1/24/2018	5.98	
5/2/2018	5.99	
8/29/2018	6.03	
11/27/2018	6.01	
5/29/2019	5.93	
10/1/2019	5.47	
3/31/2020	6.01	
9/1/2020	5.93	
11/2/2021		6.36
5/25/2022		5.99

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-6
3/1/2016	5.59	
4/19/2016	5.55	
6/7/2016	5.43	
8/30/2016	5.39	
10/19/2016	5.31	
1/31/2017	5.26	
3/22/2017	5.32	
5/3/2017	5.35	
6/7/2017	5.32	
9/14/2017	5.29	
1/24/2018	5.32	
5/2/2018	5.33	
8/29/2018	5.41	
11/28/2018	5.46	
5/29/2019	5.31	
10/1/2019	4.7	
3/31/2020	5.22	
9/2/2020	5.16	
5/17/2021	5.21	
11/2/2021		5.59
5/25/2022		4.57

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7
3/1/2016	6.36	
4/20/2016	6.31	
6/7/2016	6.3	
8/31/2016	6.31	
10/19/2016	6.23	
1/31/2017	6.26	
3/22/2017	6.32	
5/3/2017	6.29	
6/7/2017	6.27	
9/14/2017	6.25	
1/24/2018	6.35	
5/2/2018	6.29	
11/28/2018	6.33	
5/29/2019	6.18	
9/30/2019	6.36	
3/30/2020	6.32	
9/2/2020	6.25	
5/18/2021	6.4	
10/27/2021		6.35
5/24/2022		6.32

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-8
3/1/2016	6.21	
4/20/2016	6.22	
6/7/2016	6.26	
8/30/2016	6.21	
10/18/2016	6.21	
1/31/2017	6.17	
3/22/2017	6.22	
5/3/2017	6.22	
6/7/2017	6.21	
9/14/2017	6.18	
1/24/2018	6.16	
5/2/2018	6.17	
8/29/2018	6.21	
11/27/2018	6.18	
5/29/2019	6.11	
9/30/2019	6.19	
3/30/2020	6.2	
9/2/2020	5.89	
5/11/2021	6.25	
10/26/2021		6.26
5/24/2022		5.6

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-AP-MW-9
3/1/2016	6.26	
4/20/2016	6.26	
6/8/2016	6.25	
8/31/2016	6.29	
10/19/2016	6.22	
2/1/2017	6.24	
3/22/2017	6.28	
5/3/2017	6.17	
6/7/2017	6.24	
9/14/2017	6.24	
1/23/2018	6.3	
5/2/2018	6.31	
8/28/2018	6.28	
11/28/2018	6.32	
5/30/2019	6.14	
9/30/2019	6.07	
3/31/2020	6.31	
9/2/2020	5.97	
5/18/2021	6.3	
10/27/2021		6.13
5/24/2022		6.03

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-1	BY-UP-MW-1
2/23/2016	4.62	
4/19/2016	4.74	
6/6/2016	4.65	
8/30/2016	4.64	
10/18/2016	4.74	
1/31/2017	4.54	
3/20/2017	4.67	
5/2/2017	4.79	
6/6/2017	4.76	
9/13/2017	4.81	
1/23/2018	4.79	
5/2/2018	4.62	
11/27/2018	4.73	
5/29/2019	4.65	
10/2/2019	4.57	
3/31/2020	4.64	
9/9/2020	4.65	
5/12/2021	4.74	
10/19/2021		4.67
5/31/2022		3.89

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2	BY-UP-MW-2
2/23/2016	4.79	
4/19/2016	4.84	
6/7/2016	4.81	
8/30/2016	4.76	
10/18/2016	4.84	
1/31/2017	4.6	
3/20/2017	4.71	
5/2/2017	4.8	
6/6/2017	4.72	
9/13/2017	4.71	
1/23/2018	4.67	
5/1/2018	4.61	
11/27/2018	4.72	
5/29/2019	4.58	
10/2/2019	4.43	
3/31/2020	4.6	
9/9/2020	4.67	
5/11/2021	4.29	
10/19/2021		4.6
5/31/2022		3.31

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-3	BY-UP-MW-3
2/23/2016	4.96	
4/19/2016	4.94	
6/7/2016	4.96	
8/30/2016	4.92	
10/18/2016	4.98	
1/31/2017	4.74	
3/20/2017	4.9	
5/2/2017	4.98	
6/6/2017	4.94	
9/13/2017	4.93	
1/23/2018	4.91	
5/1/2018	4.87	
11/27/2018	4.94	
5/29/2019	4.8	
10/2/2019	4.52	
3/31/2020	4.4	
9/9/2020	4.76	
5/11/2021	4.53	
10/18/2021		4.55
5/31/2022		3.54

Prediction Limit

Constituent: pH, field (SU) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-4	BY-UP-MW-4
2/23/2016	4.74	
4/19/2016	4.86	
6/6/2016	4.88	
8/30/2016	4.91	
10/18/2016	4.95	
1/31/2017	4.71	
3/20/2017	4.83	
5/2/2017	4.93	
6/6/2017	4.9	
9/12/2017	4.82	
1/23/2018	4.85	
5/1/2018	4.8	
11/26/2018	4.88	
5/28/2019	4.73	
10/2/2019	4.67	
3/31/2020	4.51	
9/8/2020	4.75	
5/11/2021	4.67	
10/18/2021		4.38
5/31/2022		3.97

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-1
3/2/2016	0.31 (J)	
4/19/2016	0.335 (J)	
6/8/2016	0.556 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	6	
6/6/2017	<5	
9/13/2017	4.7 (J)	
5/1/2018	<5	
8/28/2018	<5	
11/28/2018	4.1 (J)	
5/29/2019	5.75	
10/1/2019		7.82
3/30/2020		28.4
9/1/2020		23.1
5/18/2021		16.5
11/1/2021		10.9
5/24/2022		21

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-10
3/1/2016	0.34 (J)	
4/20/2016	<5	
6/8/2016	0.538 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	4.1 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/28/2018	<5	
11/28/2018	<5	
5/30/2019	3.76	
9/30/2019		2.77
3/31/2020		20.1
9/1/2020		15.6
5/11/2021		13.2
10/27/2021		5.72
5/24/2022		14.7

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-11
3/1/2016	1.02	
4/20/2016	1.1	
6/8/2016	0.701 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	2.1 (J)	
5/3/2017	3.6 (J)	
6/7/2017	<5	
9/13/2017	<5	
5/2/2018	<5	
8/29/2018	2.3 (J)	
11/28/2018	<5	
5/29/2019	24.1	
9/30/2019		37.4
3/31/2020		57.5
9/1/2020		42.8
5/19/2021		16.5
11/2/2021		133
5/23/2022		29.3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-12
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.511 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	2.1 (J)	
6/7/2017	<5	
9/13/2017	<5	
5/2/2018	<5	
8/29/2018	<5	
11/28/2018	<50 (O)	
5/29/2019	7.04	
10/1/2019		35.3
3/31/2020		35.8
9/1/2020		32.1
5/18/2021		25.1
11/1/2021		27
5/23/2022		13

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.496 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	6.9	
5/3/2017	6.6	
6/7/2017	6	
9/13/2017	2.2 (J)	
5/2/2018	4.1 (J)	
8/29/2018	<5	
11/28/2018	4.9 (J)	
5/29/2019	49.5 (o)	
10/1/2019		47.7
3/31/2020		23.2
9/1/2020		14.2
5/19/2021		50.4
10/26/2021		21
5/24/2022		38.3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-14
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.514 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/2/2017	1.8 (J)	
6/6/2017	<5	
9/13/2017	<5	
5/2/2018	1.6 (J)	
8/29/2018	<5	
11/27/2018	<5	
5/29/2019	67.6 (o)	
10/1/2019	61.6	
3/31/2020	34.7	
9/2/2020	18.5	
5/25/2021	59.2	
10/27/2021		98.5
5/25/2022		105

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-15
3/2/2016	<5	
4/19/2016	<5	
6/8/2016	0.489 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/13/2017	<5	
5/1/2018	<5	
8/29/2018	6.2	
11/27/2018	<5	
5/29/2019	3.27	
10/1/2019	1.72	
4/1/2020	7.5	
9/2/2020	7.61	
5/11/2021	7.54	
10/26/2021		26.4
5/25/2022		1.8 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16
3/2/2016	<5	
4/19/2016	<5	
6/8/2016	0.514 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/13/2017	2.6 (J)	
5/1/2018	<5	
8/29/2018	3.9 (J)	
11/27/2018	<5	
5/29/2019	6.72	
10/1/2019	3.4	
3/31/2020	17.5 (o)	
9/2/2020	13.3 (o)	
5/19/2021	3.11	
11/1/2021		11.9
5/25/2022		6.29

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-2
3/2/2016	3.3	
4/19/2016	2.68	
6/8/2016	1.1	
8/31/2016	<1	
10/19/2016	<1	
3/21/2017	<1	
5/2/2017	<1	
6/6/2017	<1	
9/12/2017	<1	
5/1/2018	<1	
8/28/2018	<1	
11/27/2018	<1	
5/29/2019	0.885 (J)	
10/1/2019	<1	
3/31/2020	1.69	
8/31/2020	0.576 (J)	
5/18/2021	<1	
11/1/2021		1.56
5/24/2022		0.615 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-3
3/2/2016	0.79 (J)	
4/19/2016	0.674 (J)	
6/7/2016	1	
8/31/2016	0.702 (J)	
10/19/2016	0.739 (J)	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/12/2017	<5	
5/1/2018	<5	
8/28/2018	<5	
11/27/2018	<5	
5/29/2019	0.747 (J)	
10/1/2019	0.61 (J)	
3/31/2020	1.02	
9/1/2020	0.705 (J)	
5/18/2021	0.883 (J)	
11/1/2021		1.01
5/25/2022		1.41 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-4
3/1/2016	2.58	
4/19/2016	2.3	
6/7/2016	2.58	
8/30/2016	2.81	
10/19/2016	5.06	
3/21/2017	3.4 (J)	
5/2/2017	2.7 (J)	
6/6/2017	1.5 (J)	
9/12/2017	1.9 (J)	
5/1/2018	1.4 (J)	
8/28/2018	<5	
11/27/2018	2.3 (J)	
5/29/2019	2.92	
10/1/2019	2.09	
3/31/2020	4.12	
9/1/2020	1.83	
5/18/2021	4.43	
11/1/2021		3.34
5/25/2022		1.97 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5
3/1/2016	<5	
4/20/2016	<5	
6/7/2016	0.583 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/3/2017	<5	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/29/2018	1.6 (J)	
11/27/2018	2.7 (J)	
5/29/2019	5.51	
10/1/2019	7.4	
3/31/2020	23.7 (o)	
9/1/2020	11	
11/2/2021		15
5/25/2022		5.53

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-6
3/1/2016	0.36 (J)	
4/19/2016	0.435 (J)	
6/7/2016	1.22	
8/30/2016	1.08	
10/19/2016	1.01	
3/22/2017	<5	
5/3/2017	1.4 (J)	
6/7/2017	1.5 (J)	
9/14/2017	1.8 (J)	
5/2/2018	<5	
8/29/2018	<5	
11/28/2018	<5	
5/29/2019	1.17	
10/1/2019	1.04	
3/31/2020	1.21	
9/2/2020	1.02	
5/17/2021	0.981 (J)	
11/2/2021		1.37
5/25/2022		1.27 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7
3/1/2016	0.3 (J)	
4/20/2016	0.514 (J)	
6/7/2016	0.971 (J)	
8/31/2016	0.445 (J)	
10/19/2016	0.366 (J)	
3/22/2017	<5	
5/3/2017	<5	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
11/28/2018	<5	
5/29/2019	2.77	
9/30/2019	2.51	
3/30/2020	4.78	
9/2/2020	3.59	
5/18/2021	4.6	
10/27/2021		5.17
5/24/2022		7.14

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-8
3/1/2016	<5	
4/20/2016	<5	
6/7/2016	0.504 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/3/2017	2.7 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/29/2018	<5	
11/27/2018	<5	
5/29/2019	6.01	
9/30/2019		5.29
3/30/2020		33.1
9/2/2020		15.8
5/11/2021		35.4
10/26/2021		25.7
5/24/2022		81.3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-AP-MW-9
3/1/2016	<5	
4/20/2016	<5	
6/8/2016	0.51 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	2.7 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/28/2018	<5	
11/28/2018	1.4 (J)	
5/30/2019	5.91	
9/30/2019		3.77
3/31/2020		43.5
9/2/2020		21.9
5/18/2021		27.7
10/27/2021		6.33
5/24/2022		5.76

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-1	BY-UP-MW-1
2/23/2016	8.59	
4/19/2016	8.27	
6/6/2016	8.66	
8/30/2016	9.74	
10/18/2016	10.2	
3/20/2017	8.3	
5/2/2017	6.6	
6/6/2017	7.6	
9/13/2017	8.4	
5/2/2018	5.9	
11/27/2018	22	
5/29/2019	23.3	
10/2/2019	17.5	
3/31/2020	24.3	
9/9/2020	16.5	
5/12/2021	16.3	
10/19/2021		15.5
5/31/2022		12.8

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2	BY-UP-MW-2
2/23/2016	7.2	
4/19/2016	7.22	
6/7/2016	7.92	
8/30/2016	8.17	
10/18/2016	7.99	
3/20/2017	6.1	
5/2/2017	5	
6/6/2017	5.3	
9/13/2017	4.9 (J)	
5/1/2018	4.2 (J)	
5/29/2019	5.94	
10/2/2019	6.04	
3/31/2020	6.83	
9/9/2020	6.08	
5/11/2021	7.92	
10/19/2021		7.48
5/31/2022		8.09

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-3	BY-UP-MW-3
2/23/2016	7.44	
4/19/2016	7.66	
6/7/2016	8.16	
8/30/2016	8.43	
10/18/2016	8.47	
3/20/2017	7.4	
5/2/2017	6.3	
6/6/2017	7.1	
9/13/2017	7.3	
5/1/2018	6.9	
11/27/2018	6.5	
5/29/2019	7.81	
10/2/2019	7.62	
3/31/2020	7.98	
9/9/2020	7.13	
5/11/2021	7.73	
10/18/2021		7.36
5/31/2022		7.02

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 7/20/2022 3:22 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-4	BY-UP-MW-4
2/23/2016	7.04	
4/19/2016	6.74	
6/6/2016	7.04	
8/30/2016	7.57	
10/18/2016	6.62	
3/20/2017	7	
5/2/2017	5.6	
6/6/2017	6.6	
9/12/2017	7.2	
5/1/2018	5.9	
11/26/2018	5.1	
5/28/2019	7.1	
10/2/2019	6.88	
3/31/2020	10.8	
9/8/2020	6.52	
5/11/2021	6.8	
10/18/2021		6.58
5/31/2022		7.94

FIGURE E.

Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:14 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.188	5/24/2022	2.08	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-10	0.188	5/24/2022	2.34	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-16	0.188	5/25/2022	1.98	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-8	0.188	5/24/2022	1.12	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-9	0.188	5/24/2022	2.01	Yes	71	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	BY-AP-MW-1	2.141	5/24/2022	43.9	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-10	2.141	5/24/2022	63.9	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-11	2.141	5/23/2022	26	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-12	2.141	5/23/2022	20.6	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-13	2.141	5/24/2022	19.2	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-14	2.141	5/25/2022	11.4	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-15	2.141	5/25/2022	6.41	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-16	2.141	5/25/2022	13.9	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-2	2.141	5/24/2022	2.45	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-5	2.141	5/25/2022	14.6	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-7	2.141	5/24/2022	10.5	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-8	2.141	5/24/2022	31.5	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-9	2.141	5/24/2022	38.3	Yes	72	1.501	0.3034	0	None	No	0.0004702	Param Inter 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-1	9.9	5/24/2022	28.7	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-10	9.9	5/24/2022	27.7	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-11	9.9	5/23/2022	25.1	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-12	9.9	5/23/2022	26.2	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-13	9.9	5/24/2022	43.5	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-14	9.9	5/25/2022	45.3	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-15	9.9	5/25/2022	80.7	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-16	9.9	5/25/2022	20	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-3	9.9	5/25/2022	15.2	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-4	9.9	5/25/2022	16.1	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-5	9.9	5/25/2022	20	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-7	9.9	5/24/2022	13.2	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-8	9.9	5/24/2022	25	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-9	9.9	5/24/2022	17.3	Yes	72	n/a	n/a	0	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-15	0.125	5/25/2022	0.214	Yes	76	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	5/24/2022	464	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	5/24/2022	398	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	5/23/2022	404	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	5/23/2022	345	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	5/24/2022	257	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	5/25/2022	328	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	5/25/2022	255	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	5/25/2022	299	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	5/25/2022	252	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	5/24/2022	148	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	5/24/2022	303	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	5/24/2022	268	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:14 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.188	5/24/2022	2.08	Yes 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-10	0.188	5/24/2022	2.34	Yes 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-11	0.188	5/23/2022	0.0558J	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-12	0.188	5/23/2022	0.0626J	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-13	0.188	5/24/2022	0.0457J	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-14	0.188	5/25/2022	0.0618J	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-15	0.188	5/25/2022	0.0826J	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-16	0.188	5/25/2022	1.98	Yes 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-2	0.188	5/24/2022	0.1015ND	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-3	0.188	5/25/2022	0.1015ND	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-4	0.188	5/25/2022	0.1015ND	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-5	0.188	5/25/2022	0.063J	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-6	0.188	5/25/2022	0.1015ND	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-7	0.188	5/24/2022	0.0369J	No 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-8	0.188	5/24/2022	1.12	Yes 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-9	0.188	5/24/2022	2.01	Yes 71	n/a	n/a	n/a	80.28	n/a	n/a	0.000372	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	BY-AP-MW-1	2.141	5/24/2022	43.9	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-10	2.141	5/24/2022	63.9	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-11	2.141	5/23/2022	26	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-12	2.141	5/23/2022	20.6	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-13	2.141	5/24/2022	19.2	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-14	2.141	5/25/2022	11.4	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-15	2.141	5/25/2022	6.41	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-16	2.141	5/25/2022	13.9	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-2	2.141	5/24/2022	2.45	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-3	2.141	5/25/2022	1.29	No 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-4	2.141	5/25/2022	1.69	No 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-5	2.141	5/25/2022	14.6	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-6	2.141	5/25/2022	1.62	No 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-7	2.141	5/24/2022	10.5	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-8	2.141	5/24/2022	31.5	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-9	2.141	5/24/2022	38.3	Yes 72	1.501	0.3034	0	None	No	No	0.0004702	Param Inter 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-1	9.9	5/24/2022	28.7	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-10	9.9	5/24/2022	27.7	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-11	9.9	5/23/2022	25.1	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-12	9.9	5/23/2022	26.2	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-13	9.9	5/24/2022	43.5	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-14	9.9	5/25/2022	45.3	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-15	9.9	5/25/2022	80.7	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-16	9.9	5/25/2022	20	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-2	9.9	5/24/2022	9.21	No 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-3	9.9	5/25/2022	15.2	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-4	9.9	5/25/2022	16.1	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-5	9.9	5/25/2022	20	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-6	9.9	5/25/2022	6.63	No 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-7	9.9	5/24/2022	13.2	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-8	9.9	5/24/2022	25	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-9	9.9	5/24/2022	17.3	Yes 72	n/a	n/a	0	n/a	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-1	0.125	5/24/2022	0.0801J	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-10	0.125	5/24/2022	0.125ND	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-11	0.125	5/23/2022	0.0709J	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-12	0.125	5/23/2022	0.0873J	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-13	0.125	5/24/2022	0.0769J	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-14	0.125	5/25/2022	0.0733J	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-15	0.125	5/25/2022	0.214	Yes 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-16	0.125	5/25/2022	0.125ND	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-2	0.125	5/24/2022	0.125ND	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-3	0.125	5/25/2022	0.125ND	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-4	0.125	5/25/2022	0.125ND	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-5	0.125	5/25/2022	0.125ND	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-6	0.125	5/25/2022	0.125ND	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-7	0.125	5/24/2022	0.0724J	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-8	0.125	5/24/2022	0.0713J	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-9	0.125	5/24/2022	0.125ND	No 76	n/a	n/a	n/a	55.26	n/a	n/a	0.000329	NP Inter (NDs) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	5/24/2022	464	Yes 72	n/a	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	5/24/2022	398	Yes 72	n/a	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	5/23/2022	404	Yes 72	n/a	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	5/23/2022	345	Yes 72	n/a	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

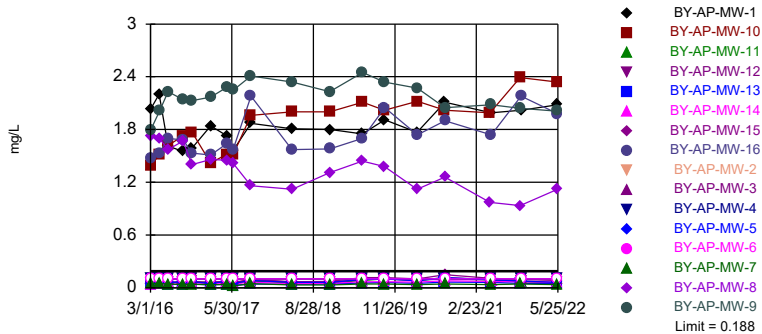
Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:14 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	BY-AP-MW-13	58	5/24/2022	257	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	5/25/2022	328	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	5/25/2022	255	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	5/25/2022	299	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-2	58	5/24/2022	40.7	No	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-3	58	5/25/2022	50.7	No	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	5/25/2022	48.7	No	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	5/25/2022	252	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-6	58	5/25/2022	40.7	No	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	5/24/2022	148	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	5/24/2022	303	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	5/24/2022	268	Yes	72	n/a	n/a	9.722	n/a	n/a	0.0003634	NP Inter (normality) 1 of 2

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-16, BY-AP-MW-8, BY-AP-MW-9

Prediction Limit
Interwell Non-parametric



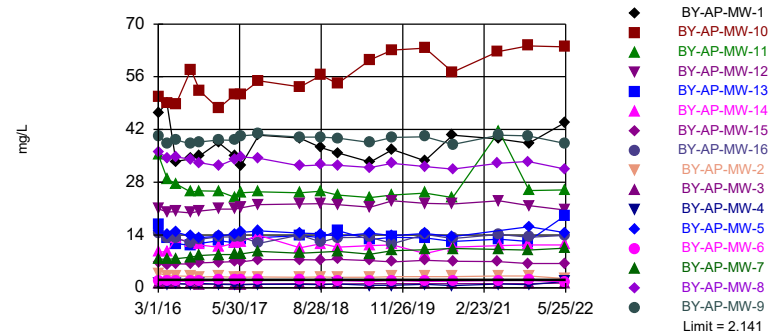
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 71 background values. 80.28% NDs. Annual per-constituent alpha = 0.01184. Individual comparison alpha = 0.000372 (1 of 2). Comparing 16 points to limit.

Constituent: Boron, total Analysis Run 7/20/2022 3:13 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit
Interwell Parametric



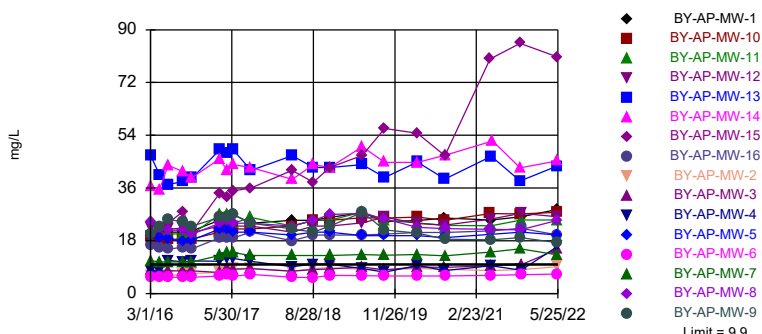
Background Data Summary: Mean=1.501, Std. Dev.=0.3034, n=72. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9742, critical = 0.954. Kappa = 2.11 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 16 points to limit.

Constituent: Calcium, total Analysis Run 7/20/2022 3:13 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit
Interwell Non-parametric



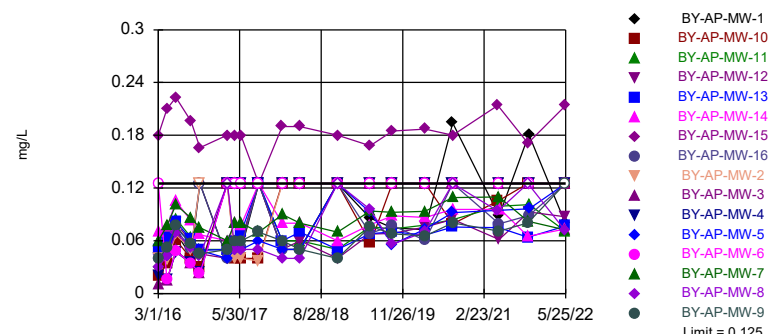
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 72 background values. Annual per-constituent alpha = 0.01156. Individual comparison alpha = 0.0003634 (1 of 2). Comparing 16 points to limit.

Constituent: Chloride, Total Analysis Run 7/20/2022 3:13 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Exceeds Limit: BY-AP-MW-15

Prediction Limit
Interwell Non-parametric

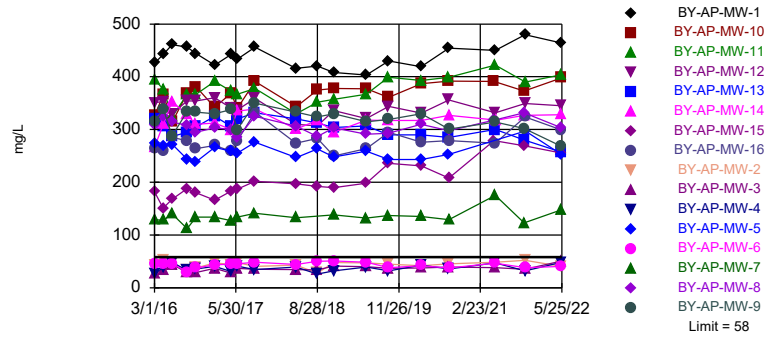


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 76 background values. 55.26% NDs. Annual per-constituent alpha = 0.01047. Individual comparison alpha = 0.000329 (1 of 2). Comparing 16 points to limit.

Constituent: Fluoride, total Analysis Run 7/20/2022 3:13 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 72 background values. 9.722% NDs. Annual per-constituent alpha = 0.01156. Individual comparison alpha = 0.0003634 (1 of 2). Comparing 16 points to limit.

Constituent: TDS Analysis Run 7/20/2022 3:13 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-1 (bg)	BY-AP-MW-10	BY-AP-MW-6	BY-AP-MW-8	BY-AP-MW-5	BY-AP-MW-9
2/23/2016	<0.1015	0.0257 (J)	0.0252 (J)	0.0212 (J)					
3/1/2016					1.39	<0.1015	1.72	0.0462 (J)	1.79
3/2/2016									
4/19/2016	<0.1015	<0.1015	<0.1015	<0.1015		<0.1015			
4/20/2016					1.51		1.7	0.0719 (J)	2.01
6/6/2016		<0.1015		<0.1015					
6/7/2016	<0.1015		0.0202 (J)			<0.1015	1.57	0.0591 (J)	
6/8/2016					1.62				2.23
8/30/2016	<0.1015	<0.1015	<0.1015	<0.1015		<0.1015	1.67	0.0675 (J)	
8/31/2016					1.73				2.14
10/18/2016	<0.1015	0.022 (J)	<0.1015	<0.1015			1.4	0.0699 (J)	
10/19/2016					1.77	<0.1015			2.13
1/31/2017	<0.1015	<0.1015	<0.1015	<0.1015		<0.1015	1.46	0.0518 (J)	
2/1/2017					1.42				2.17
5/2/2017	<0.1015	<0.1015	<0.1015	<0.1015					
5/3/2017					1.52	<0.1015	1.45	0.0737 (J)	2.28
6/6/2017	<0.1015	<0.1015	<0.1015	<0.1015					
6/7/2017					1.52	<0.1015	1.41	0.0518 (J)	2.25
9/12/2017		<0.1015							
9/13/2017	<0.1015		<0.1015	<0.1015					
9/14/2017					1.96	<0.1015	1.16	0.0825 (J)	2.41
5/1/2018	<0.1015	<0.1015	<0.1015						
5/2/2018				0.0362 (J)	2	<0.1015	1.12	0.0603 (J)	2.34
11/26/2018		<0.1015							
11/27/2018	<0.1015			0.11			1.31	0.0613 (J)	
11/28/2018					2	<0.1015			2.23
5/28/2019		<0.1015							
5/29/2019	<0.1015		<0.1015	0.188		<0.1015	1.44	0.0946 (J)	
5/30/2019					2.11				2.45
9/30/2019					2.02		1.38		2.34
10/1/2019						<0.1015		0.103	
10/2/2019	<0.1015	<0.1015	<0.1015	0.097 (J)					
3/30/2020							1.12		
3/31/2020	<0.1015	<0.1015	<0.1015	0.157	2.12	<0.1015		0.0782 (J)	2.27
4/1/2020									
8/31/2020									
9/1/2020					2.02			0.115	
9/2/2020						<0.1015	1.26		2.05
9/8/2020		<0.1015							
9/9/2020	<0.1015		<0.1015	0.0999 (J)					
5/11/2021	<0.1015	<0.1015	<0.1015		1.99		0.971		
5/12/2021				0.0841 (J)					
5/17/2021						<0.1015			
5/18/2021									2.08
5/19/2021									
5/25/2021									
10/18/2021	<0.1015	<0.1015							
10/19/2021			<0.1015	0.0708 (J)					
10/26/2021							0.933		
10/27/2021					2.39				2.04
11/1/2021									
11/2/2021						<0.1015		0.0755 (J)	

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-1 (bg)	BY-AP-MW-10	BY-AP-MW-6	BY-AP-MW-8	BY-AP-MW-5	BY-AP-MW-9
5/23/2022									
5/24/2022					2.34		1.12		2.01
5/25/2022						<0.1015		0.063 (J)	
5/31/2022	<0.1015	<0.1015	<0.1015	0.0567 (J)					

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-12
2/23/2016		
3/1/2016		
3/2/2016	2.03	0.0502 (J)
4/19/2016	2.2	
4/20/2016		0.0672 (J)
6/6/2016		
6/7/2016		
6/8/2016	1.61	0.0659 (J)
8/30/2016		
8/31/2016	1.55	0.065 (J)
10/18/2016		
10/19/2016	1.59	0.0721 (J)
1/31/2017	1.84	
2/1/2017		0.06 (J)
5/2/2017	1.73	
5/3/2017		0.0768 (J)
6/6/2017	1.56	
6/7/2017		0.0625 (J)
9/12/2017		
9/13/2017	1.87	0.0926 (J)
9/14/2017		
5/1/2018	1.81	
5/2/2018		0.064 (J)
11/26/2018		
11/27/2018		
11/28/2018	1.8	0.064 (J)
5/28/2019		
5/29/2019	1.75	0.0952 (J)
5/30/2019		
9/30/2019		
10/1/2019	1.91	0.0967 (J)
10/2/2019		
3/30/2020	1.77	
3/31/2020		0.0856 (J)
4/1/2020		
8/31/2020		
9/1/2020	2.11	0.115
9/2/2020		
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	1.99	0.0927 (J)
5/19/2021		
5/25/2021		
10/18/2021		
10/19/2021		
10/26/2021		
10/27/2021		
11/1/2021	2.02	0.0769 (J)
11/2/2021		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-12
5/23/2022		0.0626 (J)
5/24/2022	2.08	
5/25/2022		
5/31/2022		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-6	BY-AP-MW-10	BY-AP-MW-13	BY-AP-MW-3	BY-AP-MW-12	BY-AP-MW-14	BY-AP-MW-2	BY-AP-MW-15
2/23/2016									
3/1/2016	36.1	1.87	50.6						
3/2/2016				16.7	1.11	21	9.53	3.86	6.61
4/19/2016		1.69			1.01			3.22	5.97
4/20/2016	34.5		49.1	13.1		20.1	9.55		
6/6/2016									
6/7/2016	34.7	1.75			1.06				
6/8/2016			48.7	11.7		20.2	13.1	3.17	6.36
8/30/2016	34.1	1.77					12.1		
8/31/2016			57.9	11.3	0.978	19.9		3.07	6.28
10/18/2016	33.2						11.4		
10/19/2016		1.8	52.2	11.8	0.906	20.4		2.91	6.57
1/31/2017	32.3	1.98		12.5	1.04		10.8	2.94	6.77
2/1/2017			47.6			20.9			
5/2/2017					0.969		11.9	2.82	6.94
5/3/2017	34.1	1.97	51.3	12		20.9			
6/6/2017					0.902		12.2	2.79	6.88
6/7/2017	34.7	1.98	51.4	12.8		21.2			
9/12/2017					0.988			2.88	
9/13/2017				13.3		22.1	13.9		7.43
9/14/2017	34.4	2.14	54.9						
5/1/2018					1.07			2.82	7.42
5/2/2018	32.3	2.13	53.3	13.8		22.2	10.6		
8/28/2018			56.4		1.02			2.85	
8/29/2018	32.6	1.92		13.3		22.3	11.7		7.37
11/26/2018									
11/27/2018	32.5				0.999		10.8	2.8	7.58
11/28/2018		1.91	54.2	15.2		22.1			
5/28/2019									
5/29/2019	31.9	1.72		12.8	1.09	21.4	11.2	2.82	7.22
5/30/2019			60.5						
9/30/2019	33		63.1						
10/1/2019		1.92		13.4	1.08	23.1	11.4	2.94	6.9
10/2/2019									
3/30/2020	32.2								
3/31/2020		1.68	63.6	13.2	1.1	22.4	9.04	2.95	
4/1/2020									7.32
8/31/2020								3	
9/1/2020			57.2	12.3	1.08	22.2			
9/2/2020	31.5	1.8					10.8		7.04
9/8/2020									
9/9/2020									
5/11/2021	33		62.7						6.98
5/12/2021									
5/17/2021		1.93							
5/18/2021					1.12	23.1		3.17	
5/19/2021				12.9					
5/25/2021							11.2		
10/18/2021									
10/19/2021									
10/26/2021	33.5			12.3					6.46
10/27/2021			64.2				11.4		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-16
2/23/2016		
3/1/2016		
3/2/2016	46.5	14.6
4/19/2016	49	13.3
4/20/2016		
6/6/2016		
6/7/2016		
6/8/2016	33.5	13.2
8/30/2016		
8/31/2016	34.2	11.8
10/18/2016		
10/19/2016	35.1	12.9
1/31/2017	38.5	13.5
2/1/2017		
5/2/2017	35.1	13.5
5/3/2017		
6/6/2017	32.4	13.6
6/7/2017		
9/12/2017		
9/13/2017	40.5	11.8
9/14/2017		
5/1/2018	39.7	14
5/2/2018		
8/28/2018	37.2	
8/29/2018		12.1
11/26/2018		
11/27/2018		13.3
11/28/2018	35.8	
5/28/2019		
5/29/2019	33.4	13.4
5/30/2019		
9/30/2019		
10/1/2019	36.7	11.7
10/2/2019		
3/30/2020	33.7	
3/31/2020		14.2
4/1/2020		
8/31/2020		
9/1/2020	40.5	
9/2/2020		13.1
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	39.5	
5/19/2021		14.2
5/25/2021		
10/18/2021		
10/19/2021		
10/26/2021		
10/27/2021		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-16
11/1/2021	38.4	13.4
11/2/2021		
5/23/2022		
5/24/2022	43.9	
5/25/2022		13.9
5/31/2022		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-1 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-11
2/23/2016	3.99	3.68	3.59	3.5					
3/1/2016					7.74	19.7	11.2	24.5	21.7
3/2/2016									
4/19/2016	4.08	3.72	2.89	3.63	7.66				
4/20/2016						18.9	10.8	22.5	20.7
6/6/2016			3.12	3.6					
6/7/2016	4.28	3.66			11.3	18.5	10.8	21.6	
6/8/2016									20.4
8/30/2016	4.26	3.7	3.91	3.54	10.8	17.9		21.6	
8/31/2016							10.8		20.3
10/18/2016	4.26	3.77	3.9	3.68		18.2		20.2	
10/19/2016					11.1		10.8		20.3
3/20/2017	4.1	3.7	3.5	4.6					
3/21/2017					11				
3/22/2017						22	13	24	27
5/2/2017	5 (D)	4.6 (D)	3.5 (D)	3.9 (D)	12				
5/3/2017						22	14	25	27
6/6/2017	3.9 (D)	3.4 (D)	3.1 (D)	3.4 (D)	12				
6/7/2017						21	14	24	24
9/12/2017				4.3	11				
9/13/2017	4.3	3.9	4						26
9/14/2017						21	13	24	
5/1/2018	3.7	4.1		3.8	9.2				
5/2/2018			9.9			20	13	23	23
8/28/2018					10				
8/29/2018						21		25	25
11/26/2018				3.6					
11/27/2018	3.2	3.5	4.7		10	21		27	
11/28/2018							13		25
5/28/2019				3.6					
5/29/2019	2.93	3.58	5.48		8.53	19.7	13.3	27.4	27.8
5/30/2019									
9/30/2019							13.1	25.5	25
10/1/2019					7.35	19.8			
10/2/2019	2.75	3.64	3.65	3.5					
3/30/2020							13.3	22.6	
3/31/2020	2.72	3.47	3.17	3.34	9.54	19.8			24.1
4/1/2020									
8/31/2020									
9/1/2020					7.82	19.1			23.2
9/2/2020							12.9	22.2	
9/8/2020				3.29					
9/9/2020	2.32	3.47	2.92						
5/11/2021	2.16	3.42		3.33				21.9	
5/12/2021			2.18						
5/17/2021									
5/18/2021					9.53		14.2		
5/19/2021									23.1
5/25/2021									
10/18/2021		3.45		3.32					
10/19/2021	2.08		2.37						
10/26/2021							21.7		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-1 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-11
10/27/2021							15.3		
11/1/2021					7.99				
11/2/2021						21			25.1
5/23/2022									25.1
5/24/2022							13.2	25	
5/25/2022					16.1	20			
5/31/2022	2.17	3.39	1.93	3.31					

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-9	BY-AP-MW-6	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-15	BY-AP-MW-14	BY-AP-MW-13	BY-AP-MW-16
2/23/2016									
3/1/2016	19.6	20.4	5.77						
3/2/2016				6.08	8.04	20.9	36.6	47.3	16.6
4/19/2016			5.57	6.2	7.6	19.8			15.7
4/20/2016	18.8	22.7					35.5	40.5	
6/6/2016									
6/7/2016			5.52		7.7				
6/8/2016	18.6	25.3		6.2		24	43.8	37.2	15.1
8/30/2016			5.5				41.6		
8/31/2016	18.5	24.4		6.51	7.7	28		38.2	15.9
10/18/2016							39.5		
10/19/2016	18.7	23	5.55	6.85	7.73	21.3		39.4	15.3
3/20/2017									
3/21/2017				7.2	7.2	34			19
3/22/2017	21	26	6				46	49	
5/2/2017				8.3	8.6	33	42		19
5/3/2017	22	26	6.4					48	
6/6/2017				8.5	8.3	35	44		19
6/7/2017	22	27	5.9					49	
9/12/2017				8.6	8.5				
9/13/2017						36	43	42	21
9/14/2017	22	24	6.5						
5/1/2018				7.6	7.6	42			18
5/2/2018	23	22	5.5				39	47	
8/28/2018	25	21		8.5	8.2				
8/29/2018			5.4			38	44	43	20
11/26/2018									
11/27/2018				8.8	8.4	43	43		20
11/28/2018	25	23	6.2					43	
5/28/2019									
5/29/2019			6.15	8.31	9.01	47.2	50.1	44	20
5/30/2019	25.9	27.7							
9/30/2019	25.7	21.7							
10/1/2019			5.99	8.19	8.05	56.3	44.8	39.6	20.3
10/2/2019									
3/30/2020									
3/31/2020	26.1	20.6	5.94	8.48	9.07		44.7	44.9	20.8
4/1/2020						54.7			
8/31/2020				8.3					
9/1/2020	25				8.97			39.1	
9/2/2020		18.5	5.94			47	47.2		20.8
9/8/2020									
9/9/2020									
5/11/2021	27.3					80			
5/12/2021									
5/17/2021			6.26						
5/18/2021		18.3		7.89	9.52				
5/19/2021								46.8	21.4
5/25/2021							52.1		
10/18/2021									
10/19/2021									
10/26/2021						85.4		38.4	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
2/23/2016		
3/1/2016		
3/2/2016	22.2	2.18 (O)
4/19/2016		9.01 (O)
4/20/2016	21.7	
6/6/2016		
6/7/2016		
6/8/2016	22	21
8/30/2016		
8/31/2016	22.3	21
10/18/2016		
10/19/2016	20.8	21.4
3/20/2017		
3/21/2017		25
3/22/2017	23	
5/2/2017		26
5/3/2017	25	
6/6/2017		27
6/7/2017	23	
9/12/2017		
9/13/2017	23	24
9/14/2017		
5/1/2018		25
5/2/2018	21	
8/28/2018		25
8/29/2018	23	
11/26/2018		
11/27/2018		
11/28/2018	23	26
5/28/2019		
5/29/2019	24.1	27.6
5/30/2019		
9/30/2019		
10/1/2019	26.1	24.6
10/2/2019		
3/30/2020		24.9
3/31/2020	23.9	
4/1/2020		
8/31/2020		
9/1/2020	23.4	25.7
9/2/2020		
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	25.4	25.1
5/19/2021		
5/25/2021		
10/18/2021		
10/19/2021		
10/26/2021		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
10/27/2021		
11/1/2021	27.4	26.2
11/2/2021		
5/23/2022	26.2	
5/24/2022		28.7
5/25/2022		
5/31/2022		

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: AllI

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2 (bg)	BY-UP-MW-1 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-6
2/23/2016	0.02 (J)	0.03 (J)	0.02 (J)	0.02 (J)					
3/1/2016					0.02 (J)	0.06 (J)	0.02 (J)	0.04 (J)	<0.125
3/2/2016									
4/19/2016	0.021 (J)	0.023 (J)	0.016 (J)	0.015 (J)			0.016 (J)		0.016 (J)
4/20/2016					0.034 (J)	0.073 (J)		0.043 (J)	
6/6/2016		0.062 (J)		0.05 (J)					
6/7/2016	0.06 (J)		0.052 (J)				0.047 (J)	0.075 (J)	0.048 (J)
6/8/2016					0.061 (J)	0.085 (J)			
8/30/2016	0.05 (J)	0.053 (J)	0.038 (J)	0.036 (J)			0.035 (J)	0.057 (J)	0.034 (J)
8/31/2016					0.04 (J)	0.064 (J)			
10/18/2016	0.04 (J)	0.042 (J)	0.03 (J)	0.025 (J)				0.049 (J)	
10/19/2016					0.03 (J)	0.05 (J)	0.025 (J)		0.023 (J)
3/20/2017	<0.125	<0.125	<0.125	<0.125					
3/21/2017							<0.125		
3/22/2017					<0.125	0.05 (J)		0.04 (J)	<0.125
5/2/2017	0.04 (JD)	0.04 (JD)	0.1 (D)	0.1 (D)			<0.125		
5/3/2017					0.04 (J)	0.06 (J)		0.05 (J)	<0.125
6/6/2017	0.04 (JD)	0.1 (D)	0.1 (D)	0.1 (D)			<0.125		
6/7/2017					0.04 (J)	0.06 (J)		0.05 (J)	<0.125
9/12/2017				<0.125			<0.125		
9/13/2017	0.043 (J)	0.04 (J)	<0.125			<0.125 (U*)			
9/14/2017					0.04 (J)			0.06 (J)	<0.125
1/22/2018									
1/23/2018	0.04 (J)	<0.125	<0.125	<0.125	<0.125	0.06 (J)			
1/24/2018							<0.125	0.05 (J)	<0.125
5/1/2018	0.04 (J)		<0.125	<0.125			<0.125		
5/2/2018		0.04 (J)			<0.125	0.06 (J)		0.05 (J)	<0.125
11/26/2018				<0.125					
11/27/2018	<0.125	<0.125	<0.125				<0.125	<0.125	
11/28/2018					<0.125	0.05 (J)			<0.125
5/28/2019				<0.125					
5/29/2019	<0.125	0.0502 (J)	<0.125			0.0759 (J)	<0.125	0.0923 (J)	<0.125
5/30/2019					0.0573 (J)				
9/30/2019					<0.125	0.0733 (J)			
10/1/2019							<0.125	0.0557 (J)	<0.125
10/2/2019	<0.125	<0.125	<0.125	<0.125					
3/30/2020									
3/31/2020	<0.125	<0.125	<0.125	<0.125	<0.125	0.078 (J)	<0.125	0.0735 (J)	<0.125
4/1/2020									
8/31/2020									
9/1/2020					0.0794 (J)	0.0841 (J)	<0.125	0.0921 (J)	
9/2/2020									<0.125
9/8/2020				<0.125					
9/9/2020	<0.125	<0.125	<0.125						
5/11/2021	<0.125		<0.125	<0.125	0.105				
5/12/2021		<0.125							
5/17/2021									<0.125
5/18/2021							<0.125		
5/19/2021						0.0994 (J)			
5/25/2021									
10/18/2021			<0.125	<0.125					
10/19/2021	<0.125	<0.125							

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 7/20/2022 3:14 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2 (bg)	BY-UP-MW-1 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-6
10/26/2021									
10/27/2021					<0.125				
11/1/2021							<0.125		
11/2/2021						0.101		0.0964 (J)	<0.125
5/23/2022						0.0709 (J)			
5/24/2022					<0.125 (D)				
5/25/2022							<0.125	<0.125	<0.125
5/31/2022	<0.125	<0.125	<0.125	<0.125					

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 7/20/2022 3:15 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-2
2/23/2016		
3/1/2016		
3/2/2016	0.03 (J)	0.04 (J)
4/19/2016	0.052 (J)	0.038 (J)
4/20/2016		
6/6/2016		
6/7/2016		
6/8/2016	0.069 (J)	0.067 (J)
8/30/2016		
8/31/2016	0.043 (J)	0.05 (J)
10/18/2016		
10/19/2016	<0.125	<0.125
3/20/2017		
3/21/2017	0.04 (J)	<0.125
3/22/2017		
5/2/2017	0.05 (J)	0.04 (J)
5/3/2017		
6/6/2017	0.049 (J)	0.04 (J)
6/7/2017		
9/12/2017		0.037 (J)
9/13/2017	<0.125 (U*)	
9/14/2017		
1/22/2018		
1/23/2018		
1/24/2018	0.05 (J)	<0.125
5/1/2018	0.05 (J)	<0.125
5/2/2018		
11/26/2018		
11/27/2018		<0.125
11/28/2018	<0.125	
5/28/2019		
5/29/2019	0.0858 (J)	<0.125
5/30/2019		
9/30/2019		
10/1/2019	0.0744 (J)	<0.125
10/2/2019		
3/30/2020	0.0726 (J)	
3/31/2020		<0.125
4/1/2020		
8/31/2020		<0.125
9/1/2020	0.194	
9/2/2020		
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	0.0884 (J)	<0.125
5/19/2021		
5/25/2021		
10/18/2021		
10/19/2021		

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 7/20/2022 3:15 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-2
10/26/2021		
10/27/2021		
11/1/2021	0.181	<0.125
11/2/2021		
5/23/2022		
5/24/2022	0.0801 (J)	<0.125
5/25/2022		
5/31/2022		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/20/2022 3:15 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-4 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-1 (bg)	BY-AP-MW-5	BY-AP-MW-11	BY-AP-MW-7	BY-AP-MW-9	BY-AP-MW-4
2/23/2016	<25	30.7	40	26.7					
3/1/2016					273	395	129	314	27.3
3/2/2016									
4/19/2016	<25	<25	32	<25					38
4/20/2016					269	376	128	338	
6/6/2016	28.7			32.7					
6/7/2016		35.3	38.7		272		140		48.7
6/8/2016						324		288	
8/30/2016	25.3	27.3	31.3	33.3	244				32.7
8/31/2016						367	112	334	
10/18/2016	<25	<25	26.7	27.3	238				
10/19/2016						367	134	333	36
1/31/2017	26	32.7	30	32	266		134		40.7
2/1/2017						391		330	
5/2/2017	<25	30.7	30.7	31.3					30.7
5/3/2017					259	373	127	338	
6/6/2017	42.7	34.7	32.7	35.3					41.3
6/7/2017					255	367	134	300	
9/12/2017	26.7								34.7
9/13/2017		39.3	38	36.7		378			
9/14/2017					276		141	350	
5/1/2018	34.7	42	35.3						39.3
5/2/2018				34	247	330	133	333	
8/28/2018								324	26
8/29/2018					263	352			
11/26/2018	32.7								
11/27/2018		31.3	36	50.7	248				32
11/28/2018						357	138	330	
5/28/2019	31.3								
5/29/2019		40	37.3	58	259	367	132		39.3
5/30/2019								315	
9/30/2019						399	137	319	
10/1/2019					243				32
10/2/2019	36	41.3	36.7	46					
3/30/2020							135		
3/31/2020	36.7	40	39.3	53.3	243	393		330	42.7
4/1/2020									
8/31/2020									
9/1/2020					253	399			36
9/2/2020							129	301	
9/8/2020	39.3								
9/9/2020		40.7	42.7	42					
5/11/2021	46.7	35.3	44						
5/12/2021				40.7					
5/17/2021									
5/18/2021							175	314	47.3
5/19/2021						422			
5/25/2021									
10/18/2021	36		36						
10/19/2021		36		40					
10/26/2021									
10/27/2021							123	302	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/20/2022 3:15 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-4 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-1 (bg)	BY-AP-MW-5	BY-AP-MW-11	BY-AP-MW-7	BY-AP-MW-9	BY-AP-MW-4
11/1/2021									32
11/2/2021					297	390			
5/23/2022						404			
5/24/2022							148	268	
5/25/2022					252				48.7
5/31/2022	36.7	30.7	35.3	32					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/20/2022 3:15 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-6	BY-AP-MW-10	BY-AP-MW-13	BY-AP-MW-3	BY-AP-MW-12	BY-AP-MW-14	BY-AP-MW-2	BY-AP-MW-15
2/23/2016									
3/1/2016	309	45.3	326						
3/2/2016				319	27.3	351	266	42	182
4/19/2016		46			33.3			51.3	151
4/20/2016	324		366	305		353	311		
6/6/2016									
6/7/2016	314	46			44				
6/8/2016			314	287		330	353	46.7	168
8/30/2016	308	30					328		
8/31/2016			368	295	29.3	354		32.7	188
10/18/2016	295						310		
10/19/2016		37.3	381	305	29.3	354		37.3	180
1/31/2017	303	43.3		325	36.7		312	47.3	166
2/1/2017			342			360			
5/2/2017					28		300	44	183
5/3/2017	300	44.7	369	306		341			
6/6/2017					36.7		335	48	187
6/7/2017	284	45.3	340	320		337			
9/12/2017					35.3			40.7	
9/13/2017				332		359	339		202
9/14/2017	325	48.7	391						
5/1/2018					34.7			42.7	197
5/2/2018	306	44	343	320		310	301		
8/28/2018			375		34			28	
8/29/2018	287	50		312		307	318		192
11/26/2018									
11/27/2018	303				41.3		295	48	190
11/28/2018		50.7	378	304		336			
5/28/2019									
5/29/2019	291	48.7		307	40	321	318	47.3	198
5/30/2019			377						
9/30/2019	293		361						
10/1/2019		38		290	36.7	344	317	44.7	236
10/2/2019									
3/30/2020	310								
3/31/2020		42	387	290	37.3	331	317	42	
4/1/2020									231
8/31/2020								45.3	
9/1/2020			392	285	39.3	356			
9/2/2020	298	37.3					327		208
9/8/2020									
9/9/2020									
5/11/2021	318		391						279
5/12/2021									
5/17/2021		46.7							
5/18/2021					38	332		48.7	
5/19/2021				300					
5/25/2021							318		
10/18/2021									
10/19/2021									
10/26/2021	332			280					269
10/27/2021			373				327		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/20/2022 3:15 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-16
2/23/2016		
3/1/2016		
3/2/2016	426	263
4/19/2016	442	259
4/20/2016		
6/6/2016		
6/7/2016		
6/8/2016	461	285
8/30/2016		
8/31/2016	456	279
10/18/2016		
10/19/2016	444	264
1/31/2017	422	270
2/1/2017		
5/2/2017	442	259
5/3/2017		
6/6/2017	433	278
6/7/2017		
9/12/2017		
9/13/2017	456	333
9/14/2017		
5/1/2018	416	274
5/2/2018		
8/28/2018	420	
8/29/2018		283
11/26/2018		
11/27/2018		250
11/28/2018	408	
5/28/2019		
5/29/2019	403	264
5/30/2019		
9/30/2019		
10/1/2019	430	295
10/2/2019		
3/30/2020	419	
3/31/2020		276
4/1/2020		
8/31/2020		
9/1/2020	454	
9/2/2020		279
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	450	
5/19/2021		274
5/25/2021		
10/18/2021		
10/19/2021		
10/26/2021		
10/27/2021		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 7/20/2022 3:15 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-16
11/1/2021	480	324
11/2/2021		
5/23/2022		
5/24/2022	464	
5/25/2022		299
5/31/2022		

FIGURE F.

Trend Test - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:26 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-10	0.1311	110	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-16	0.0646	84	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-8	-0.1071	-112	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-10	2.463	117	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-12	0.4261	87	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-7	0.4635	133	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-8	-0.4562	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-3 (bg)	0.07505	86	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-4 (bg)	0.1262	111	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-1	0.8122	65	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-10	1.596	139	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-12	0.6575	105	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-14	1.34	83	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-15	9.506	151	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-16	0.8393	115	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-3	0.359	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-7	0.4288	75	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-2 (bg)	-0.3942	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-3 (bg)	-0.04984	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-4 (bg)	-0.05925	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-1 (bg)	0.01277	80	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-2 (bg)	0.01673	85	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-3 (bg)	0.01205	92	74	Yes	19	63.16	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-4 (bg)	0.01076	92	74	Yes	19	63.16	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-13	-0.0481	-128	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-2	-0.09486	-137	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-2 (bg)	-0.07015	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-3 (bg)	-0.07433	-113	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-4 (bg)	-0.05992	-98	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-1	2.168	106	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-11	5.258	114	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-12	2.096	77	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-14	7.276	79	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-8	2.306	104	74	Yes	19	52.63	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	6.544	88	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	15.07	125	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-1 (bg)	3.147	72	68	Yes	18	5.556	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-4 (bg)	3.695	95	68	Yes	18	22.22	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:26 PM

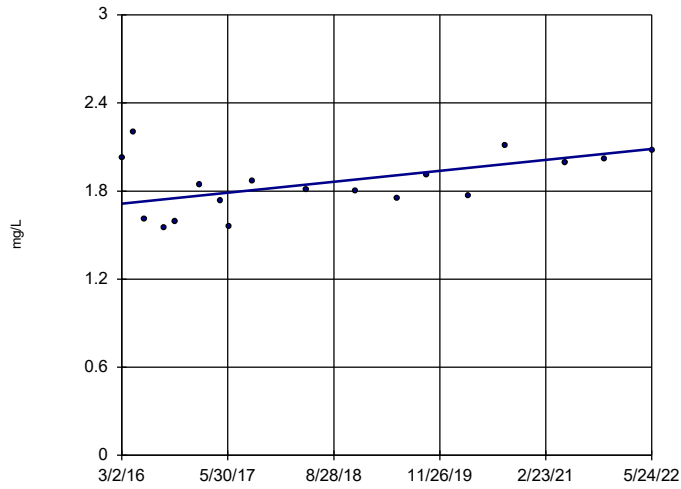
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.05988	45	68	No	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-10	0.1311	110	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-16	0.0646	84	68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-8	-0.1071	-112	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-9	0.01049	10	68	No	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-1 (bg)	0	-19	-68	No	18	44.44	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-2 (bg)	0	27	63	No	17	88.24	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-3 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-4 (bg)	0	25	68	No	18	88.89	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-1	0.3773	13	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-10	2.463	117	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-11	-0.333	-43	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-12	0.4261	87	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-13	0.1429	36	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-14	0	-7	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-15	0.1185	41	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-16	0.06036	18	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-2	-0.05034	-36	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-5	0	4	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-7	0.4635	133	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-8	-0.4562	-88	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-9	0.09472	21	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-1 (bg)	0.02597	19	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-2 (bg)	0.06598	57	68	No	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-3 (bg)	0.07505	86	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-4 (bg)	0.1262	111	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-1	0.8122	65	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-10	1.596	139	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-11	0.5172	43	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-12	0.6575	105	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-13	-0.07749	-5	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-14	1.34	83	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-15	9.506	151	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-16	0.8393	115	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-3	0.359	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-4	-0.3427	-26	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-5	0.02448	15	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-7	0.4288	75	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-8	0.08022	18	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-9	-1.025	-69	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-1 (bg)	-0.1668	-34	-68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-2 (bg)	-0.3942	-104	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-3 (bg)	-0.04984	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-4 (bg)	-0.05925	-69	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-AP-MW-15	0	0	74	No	19	5.263	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-1 (bg)	0.01277	80	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-2 (bg)	0.01673	85	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-3 (bg)	0.01205	92	74	Yes	19	63.16	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-4 (bg)	0.01076	92	74	Yes	19	63.16	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-1	0	0	87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-10	-0.01552	-32	-87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-13	-0.0481	-128	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-2	-0.09486	-137	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-6	-0.04963	-83	-87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-8	-0.01141	-56	-87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-1 (bg)	-0.004287	-14	-81	No	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-2 (bg)	-0.07015	-123	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-3 (bg)	-0.07433	-113	-81	Yes	20	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-4 (bg)	-0.05992	-98	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-1	2.168	106	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-10	0.812	67	74	No	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-11	5.258	114	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-12	2.096	77	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-13	3.002	67	68	No	18	27.78	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-14	7.276	79	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-7	0.7261	62	68	No	18	33.33	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-8	2.306	104	74	Yes	19	52.63	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-1 (bg)	1.548	45	68	No	18	0	n/a	n/a	0.01	NP

Trend Test - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:26 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Sulfate as SO4 (mg/L)	BY-UP-MW-2 (bg)	0.0231	3	63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-3 (bg)	-0.07308	-27	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-4 (bg)	-0.02454	-6	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-1	0	1	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	6.544	88	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-11	5.887	54	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-12	-1.313	-20	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-13	-5.166	-64	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-14	2.028	33	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	15.07	125	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-16	3.704	49	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-5	-2.941	-31	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-7	1.47	31	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-8	-0.7384	-8	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-9	-5.014	-59	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-1 (bg)	3.147	72	68	Yes	18	5.556	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-2 (bg)	1.703	57	68	No	18	11.11	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-3 (bg)	1.36	45	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-4 (bg)	3.695	95	68	Yes	18	22.22	n/a	n/a	0.01	NP

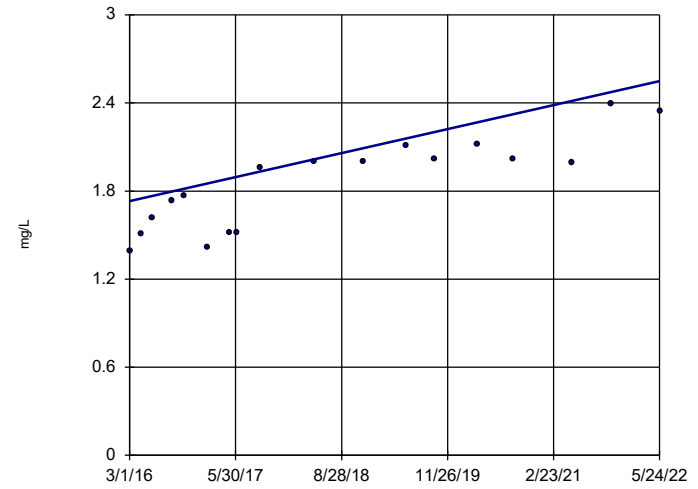
Sen's Slope Estimator BY-AP-MW-1



n = 18
 Slope = 0.05988
 units per year.
 Mann-Kendall
 statistic = 45
 critical = 68
 Trend not signi-
 ficant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

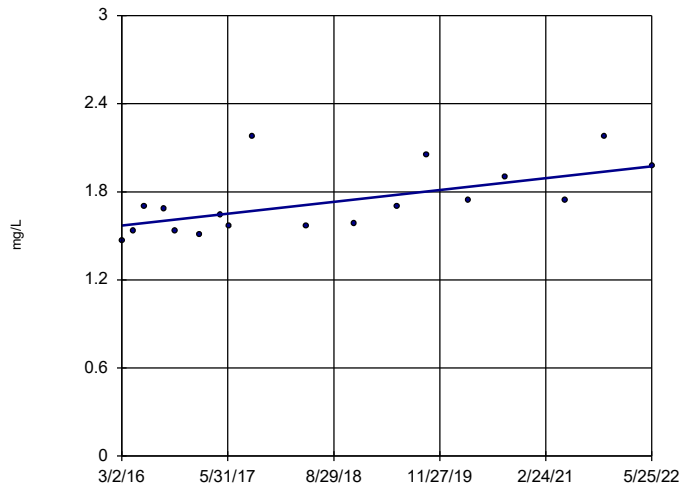
Sen's Slope Estimator BY-AP-MW-10



n = 18
 Slope = 0.1311
 units per year.
 Mann-Kendall
 statistic = 110
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

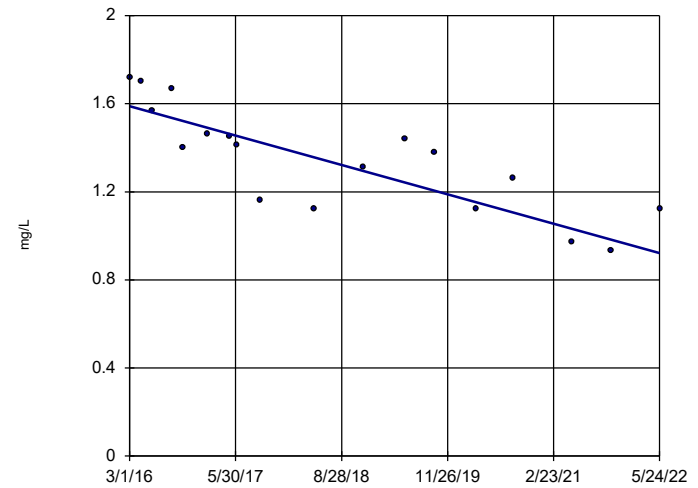
Sen's Slope Estimator BY-AP-MW-16



n = 18
 Slope = 0.0646
 units per year.
 Mann-Kendall
 statistic = 84
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-8

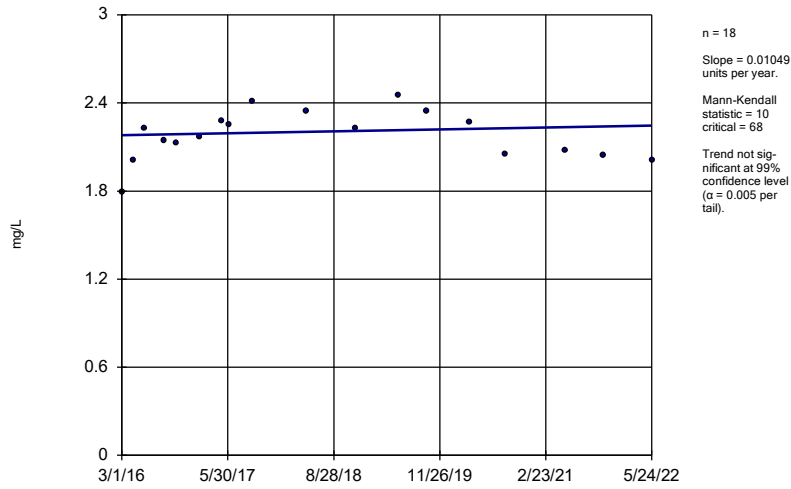


n = 18
 Slope = -0.1071
 units per year.
 Mann-Kendall
 statistic = -112
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-9

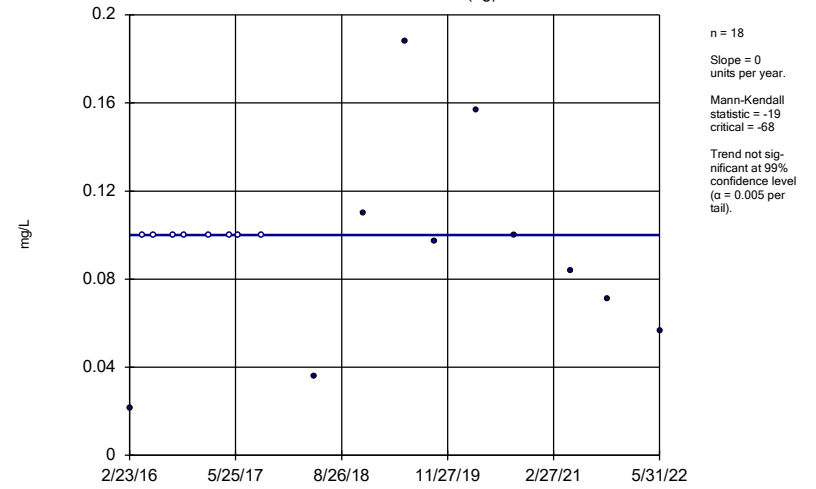


Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

BY-UP-MW-1 (bg)

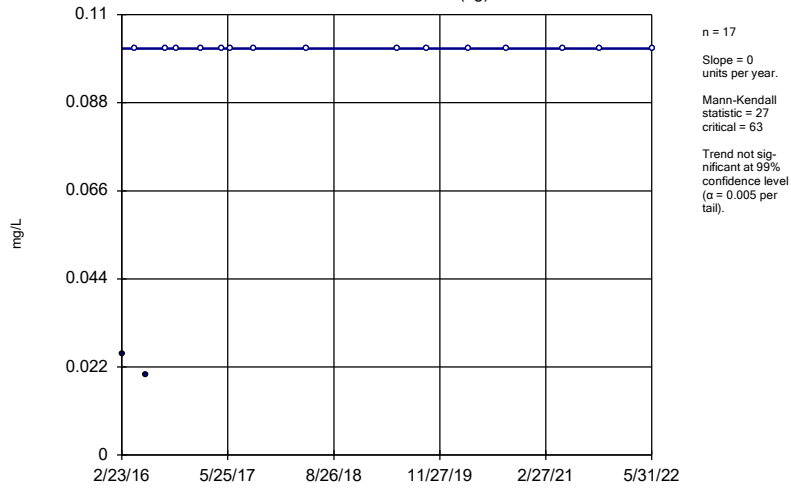


Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Sen's Slope Estimator

BY-UP-MW-2 (bg)

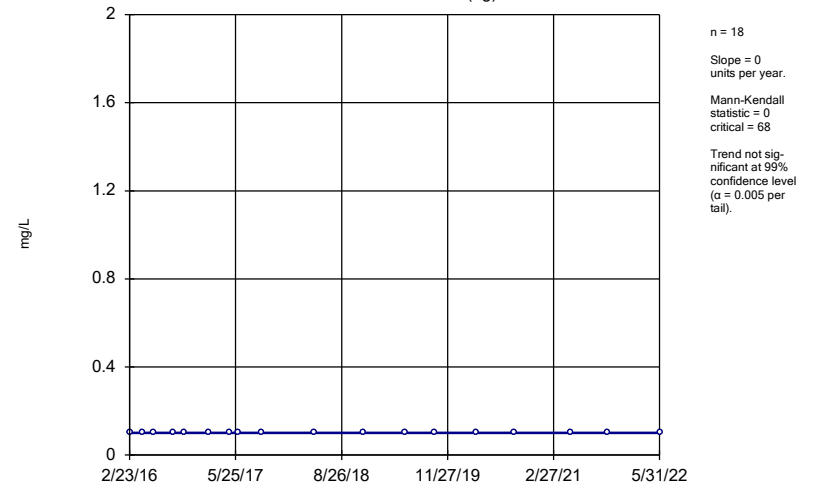


Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

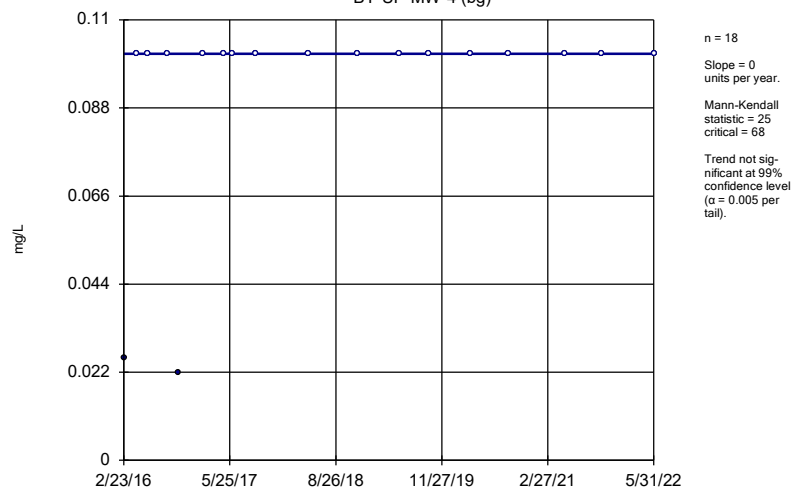
Sen's Slope Estimator

BY-UP-MW-3 (bg)



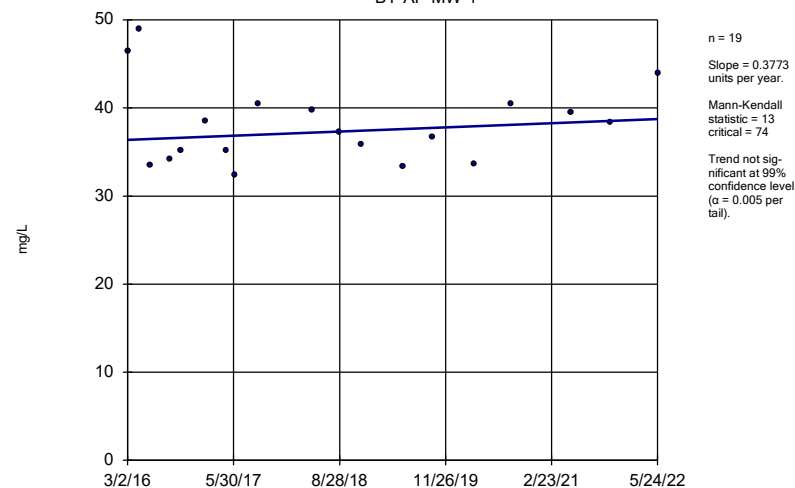
Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-4 (bg)



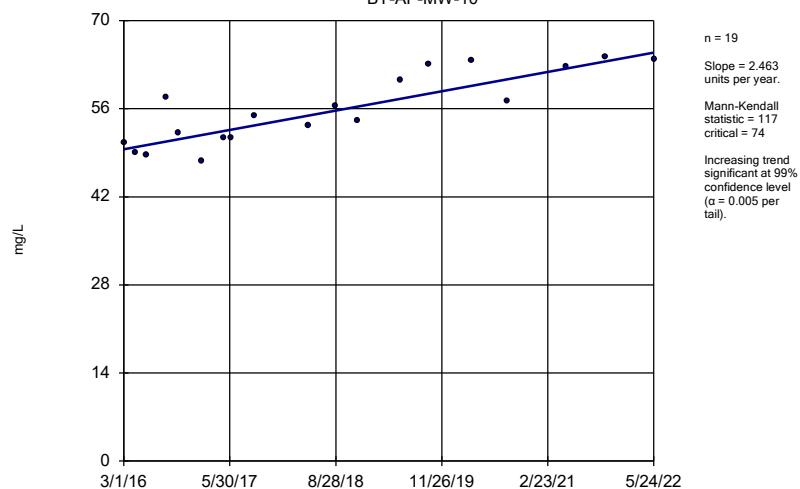
Constituent: Boron, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-1



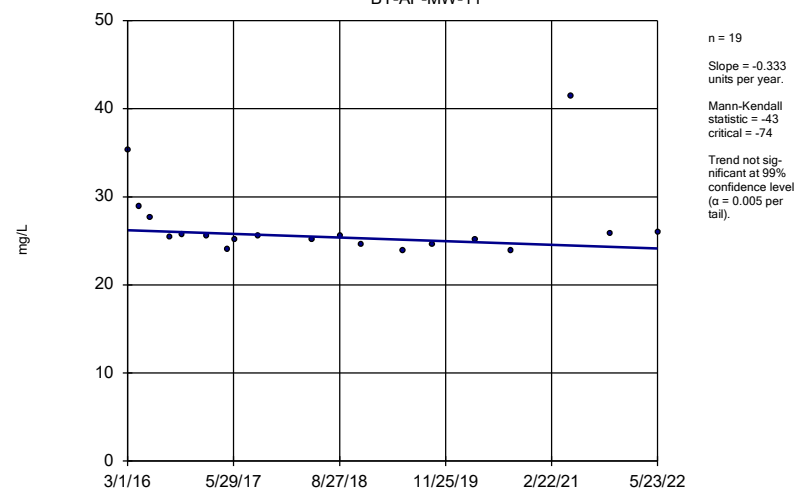
Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-10



Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

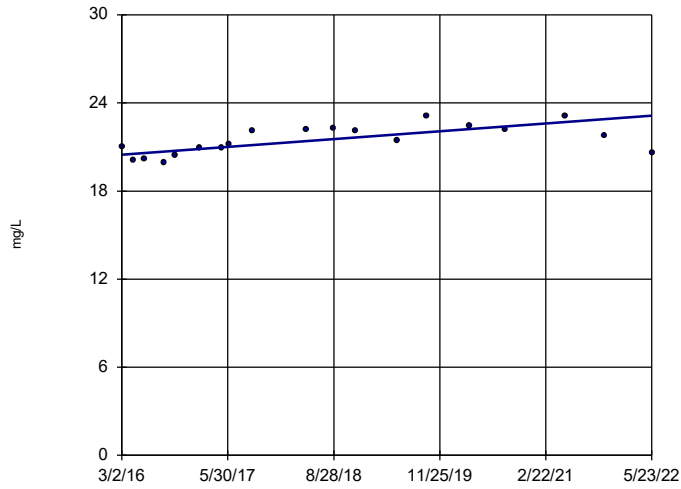
Sen's Slope Estimator BY-AP-MW-11



Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

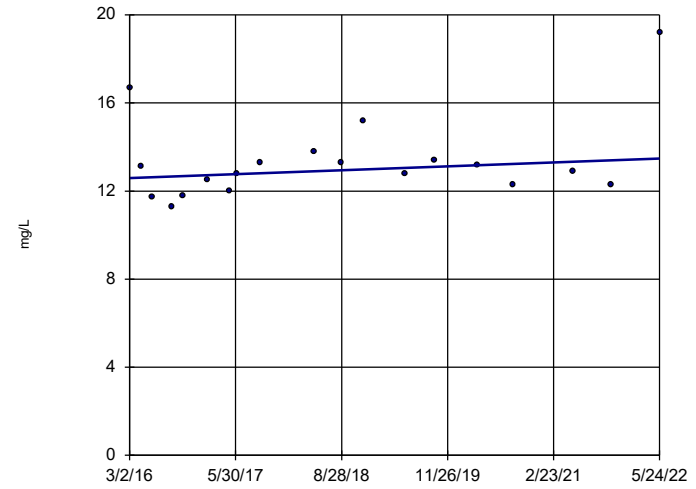


n = 19
 Slope = 0.4261
 units per year.
 Mann-Kendall
 statistic = 87
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

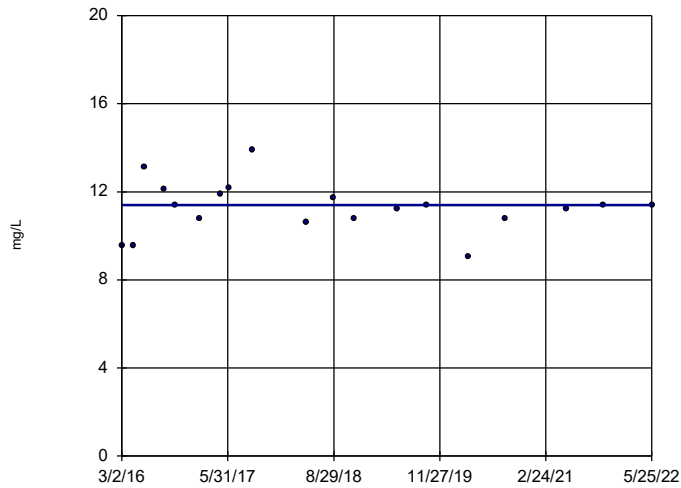


n = 19
 Slope = 0.1429
 units per year.
 Mann-Kendall
 statistic = 36
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

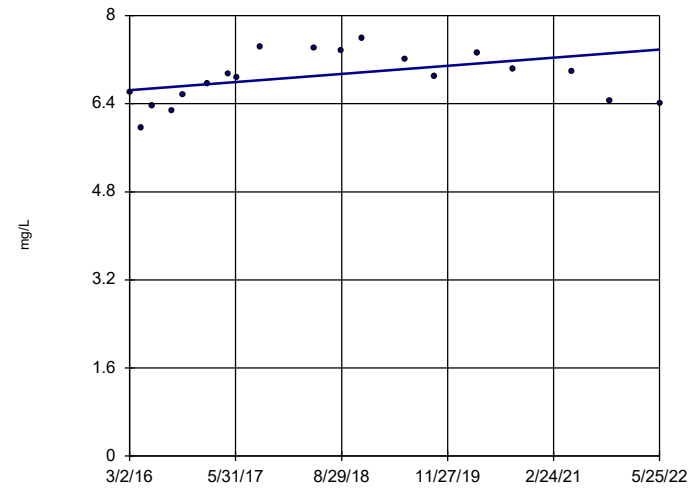


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

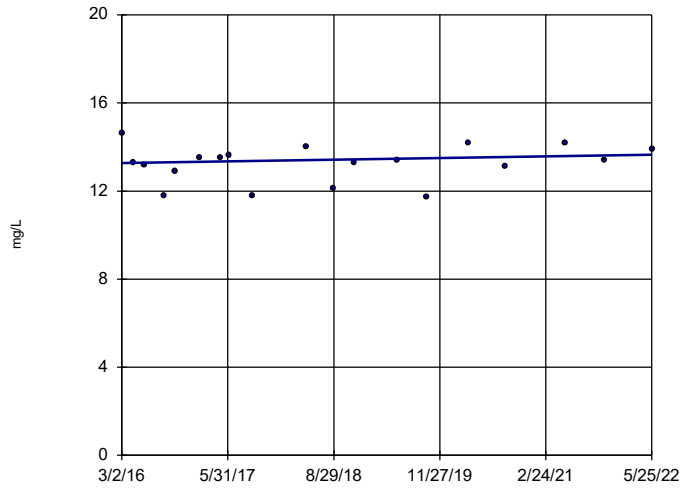
BY-AP-MW-15



n = 19
 Slope = 0.1185
 units per year.
 Mann-Kendall
 statistic = 41
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

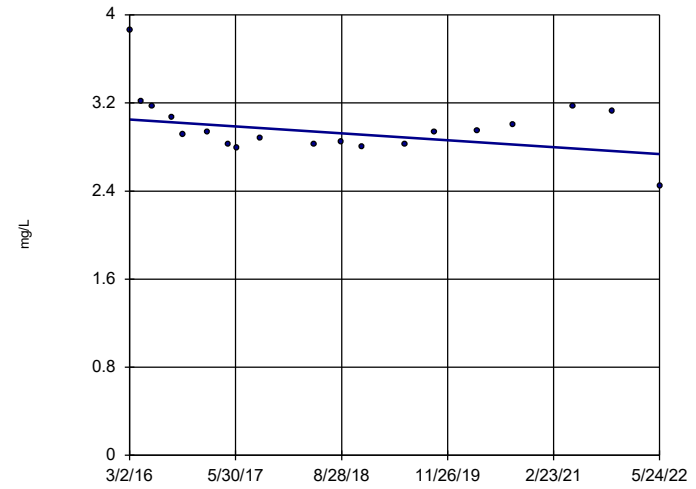
Sen's Slope Estimator BY-AP-MW-16



n = 19
 Slope = 0.06036
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

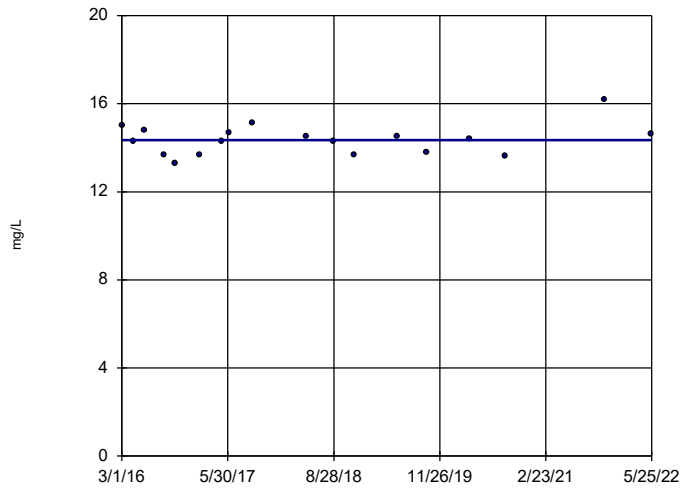
Sen's Slope Estimator BY-AP-MW-2



n = 19
 Slope = -0.05034
 units per year.
 Mann-Kendall
 statistic = -36
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

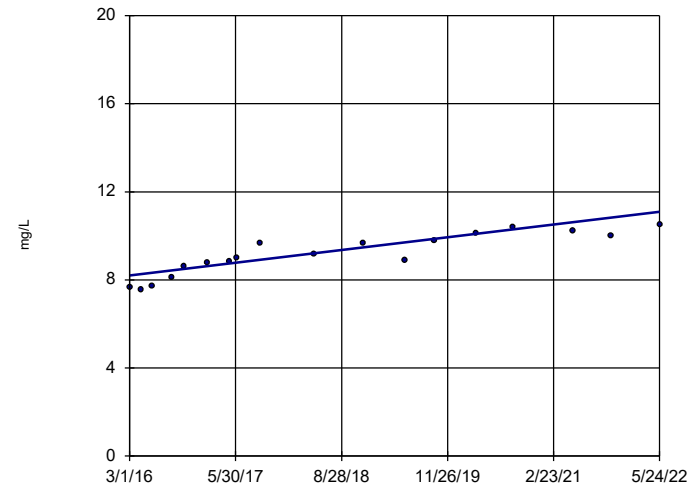
Sen's Slope Estimator BY-AP-MW-5



n = 18
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

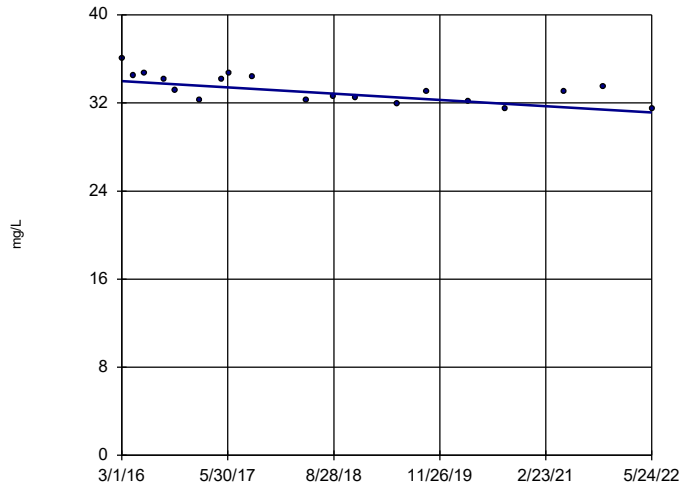
Sen's Slope Estimator BY-AP-MW-7



n = 18
 Slope = 0.4635
 units per year.
 Mann-Kendall
 statistic = 133
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

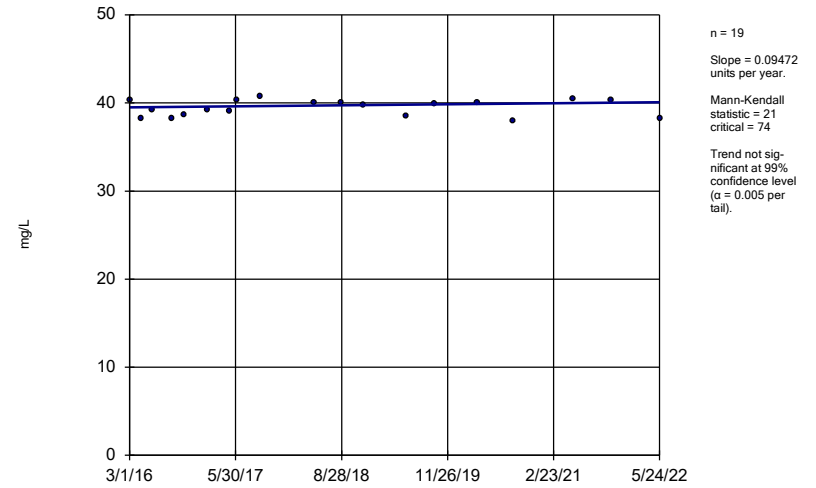
Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-8



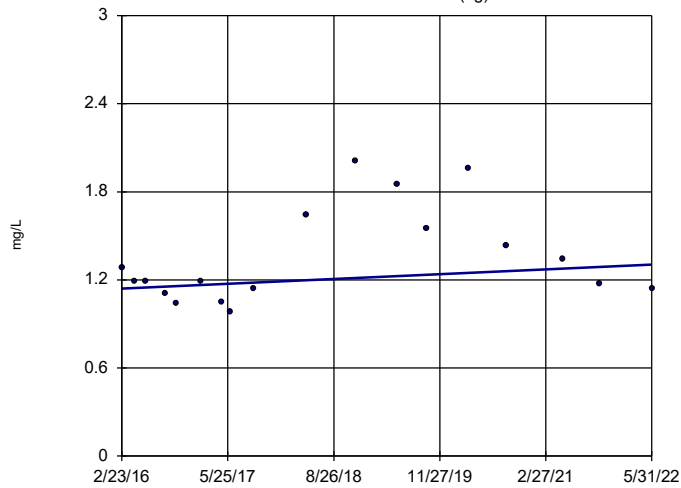
Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-9



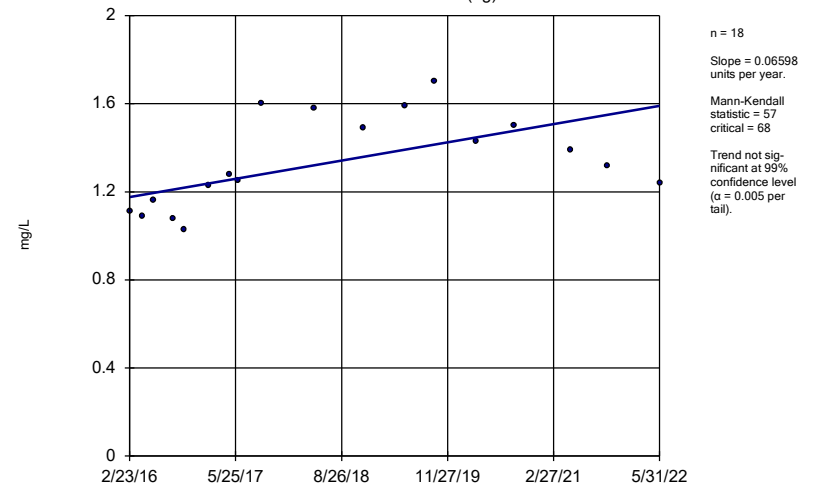
Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-UP-MW-1 (bg)



Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

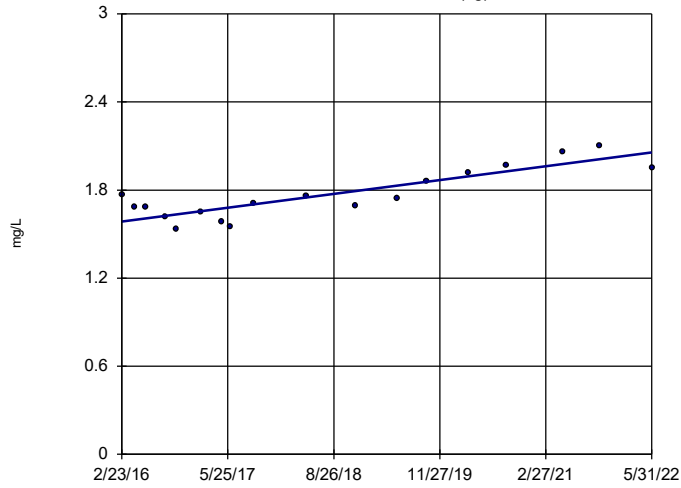
Sen's Slope Estimator
BY-UP-MW-2 (bg)



Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

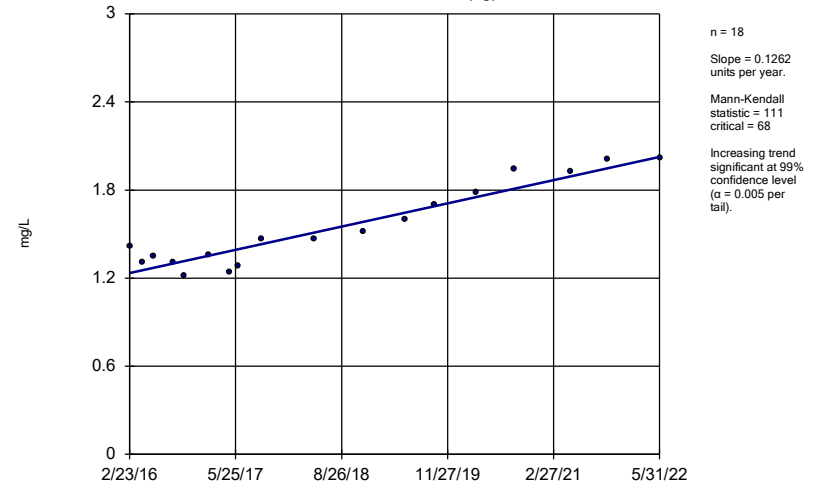
BY-UP-MW-3 (bg)



Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

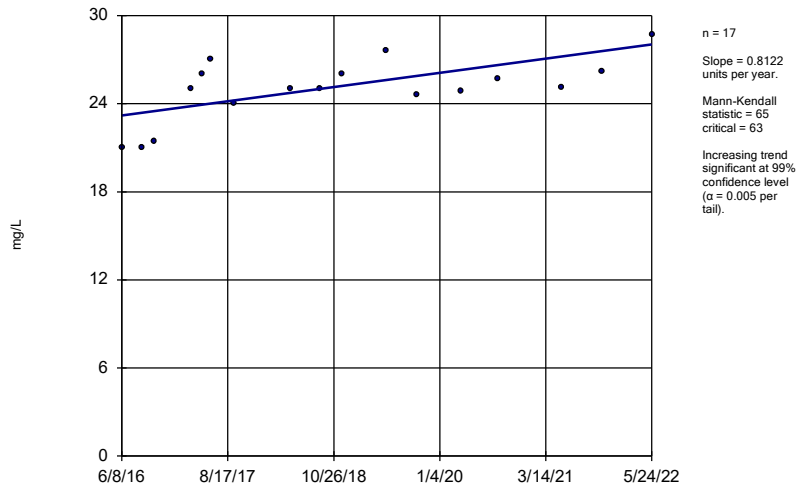
BY-UP-MW-4 (bg)



Constituent: Calcium, total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

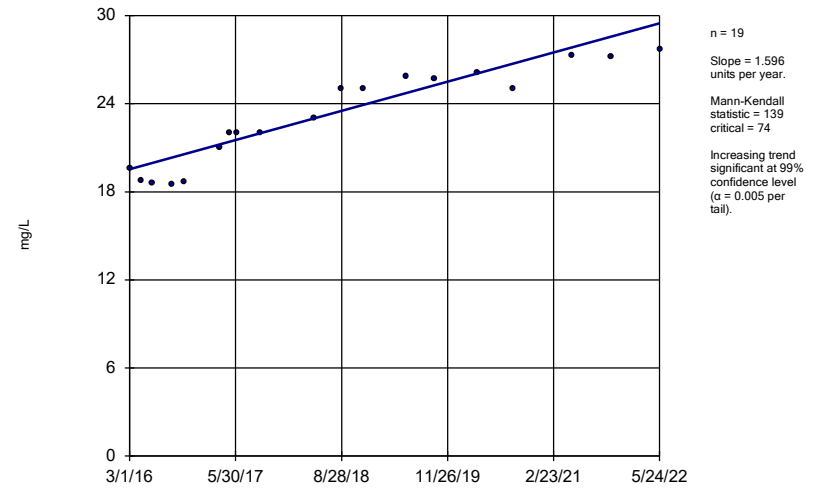
BY-AP-MW-1



Constituent: Chloride, Total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

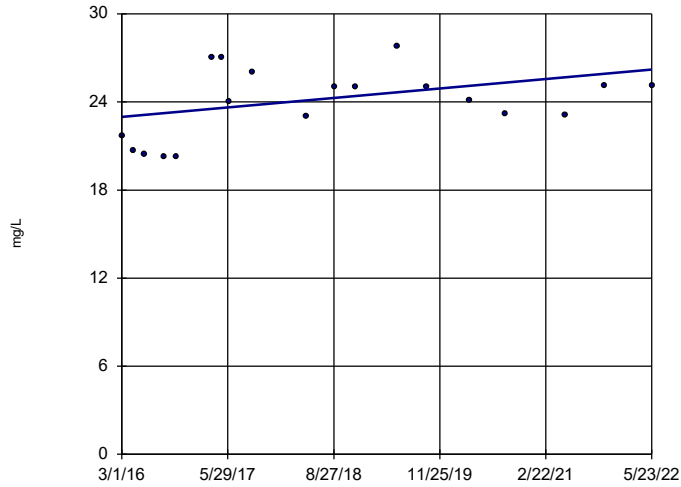
BY-AP-MW-10



Constituent: Chloride, Total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

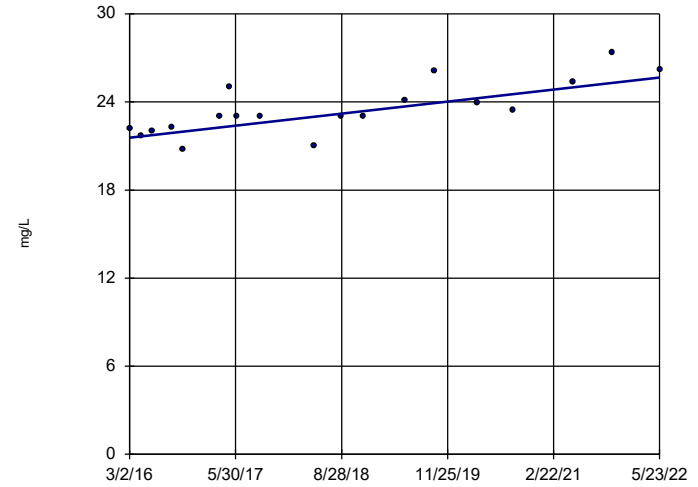


n = 19
 Slope = 0.5172
 units per year.
 Mann-Kendall
 statistic = 43
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

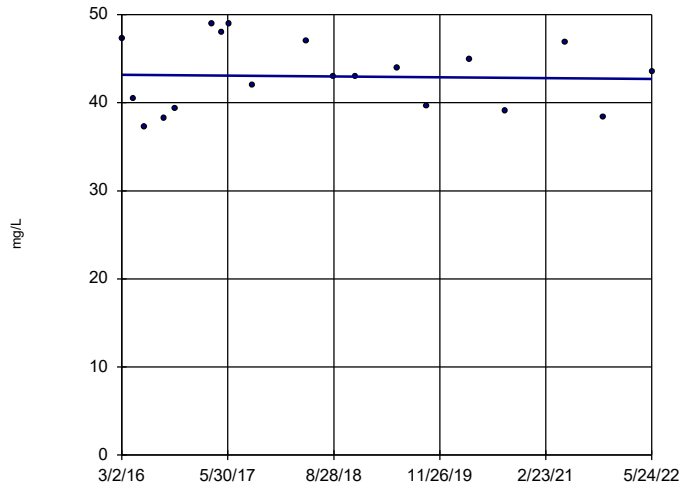


n = 19
 Slope = 0.6575
 units per year.
 Mann-Kendall
 statistic = 105
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

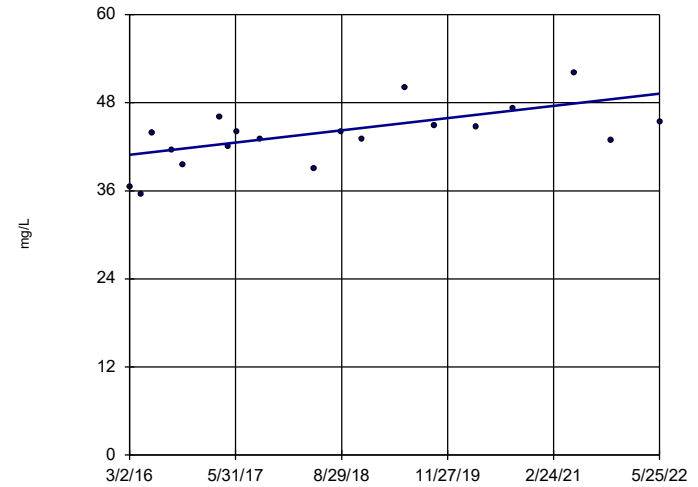


n = 19
 Slope = -0.07749
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

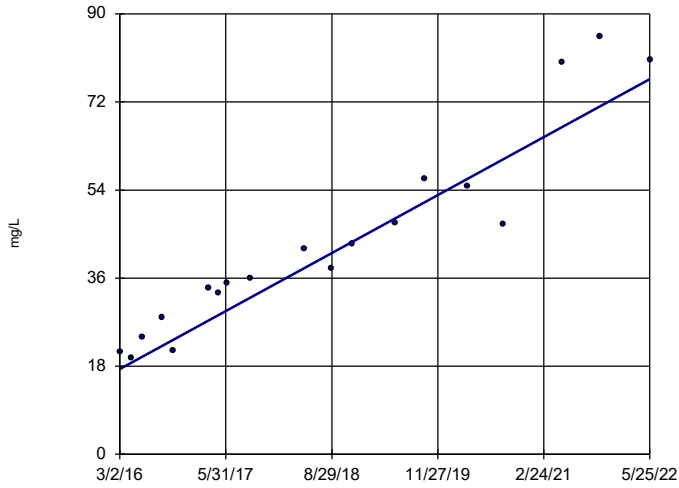


n = 19
 Slope = 1.34
 units per year.
 Mann-Kendall
 statistic = 83
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 7/20/2022 3:23 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

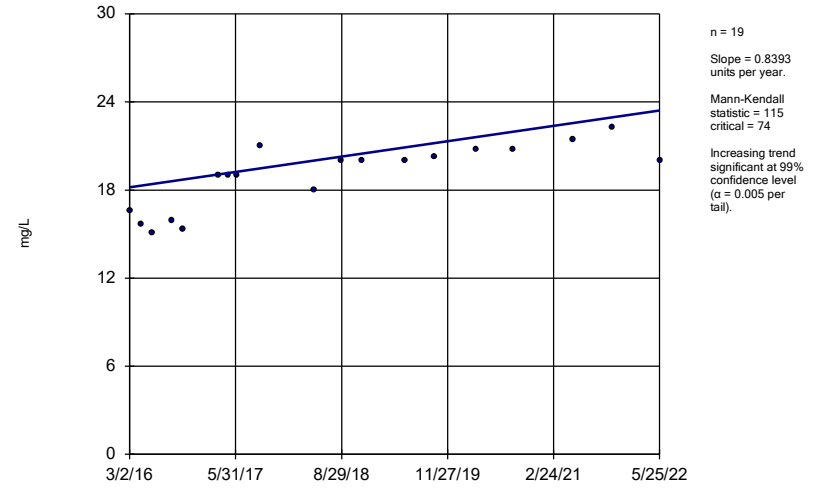
BY-AP-MW-15



Constituent: Chloride, Total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

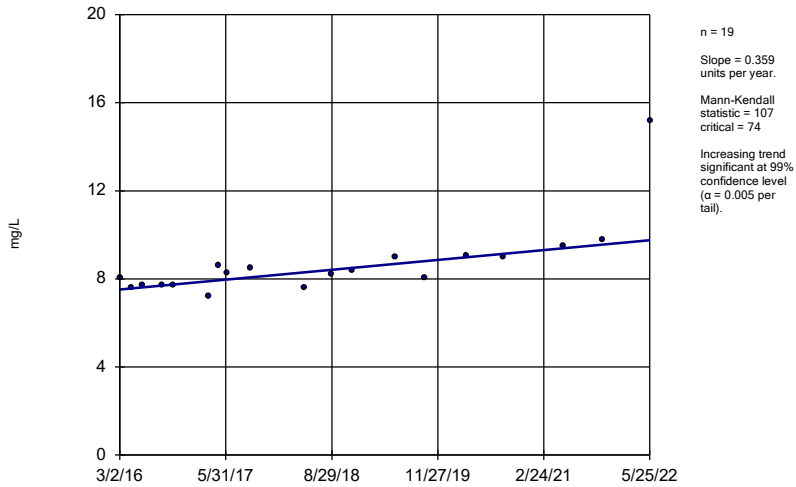
BY-AP-MW-16



Constituent: Chloride, Total Analysis Run 7/20/2022 3:23 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

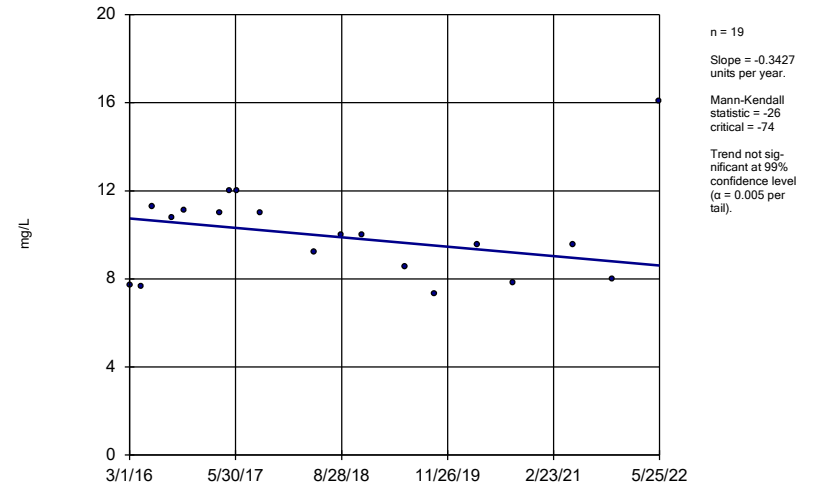
BY-AP-MW-3



Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

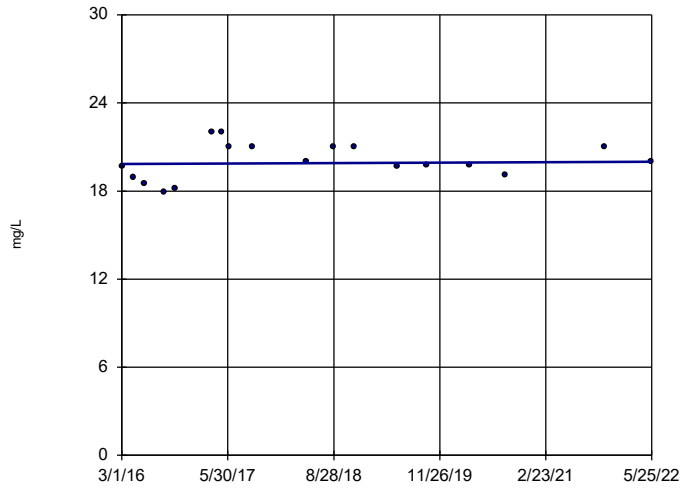
Sen's Slope Estimator

BY-AP-MW-4



Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

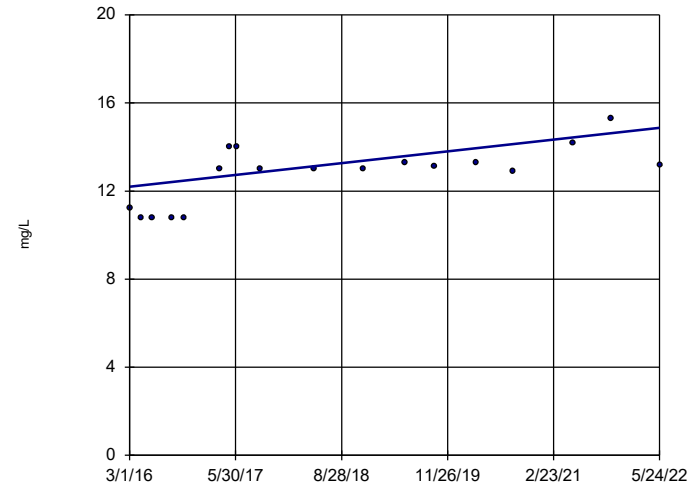
Sen's Slope Estimator BY-AP-MW-5



n = 18
 Slope = 0.02448
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

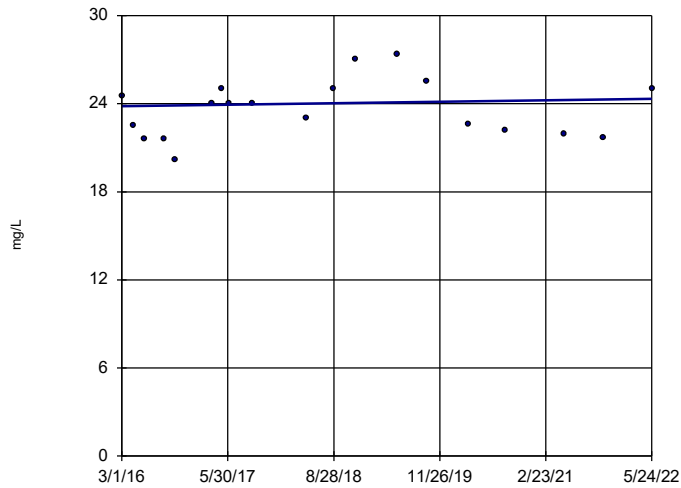
Sen's Slope Estimator BY-AP-MW-7



n = 18
 Slope = 0.4288
 units per year.
 Mann-Kendall
 statistic = 75
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

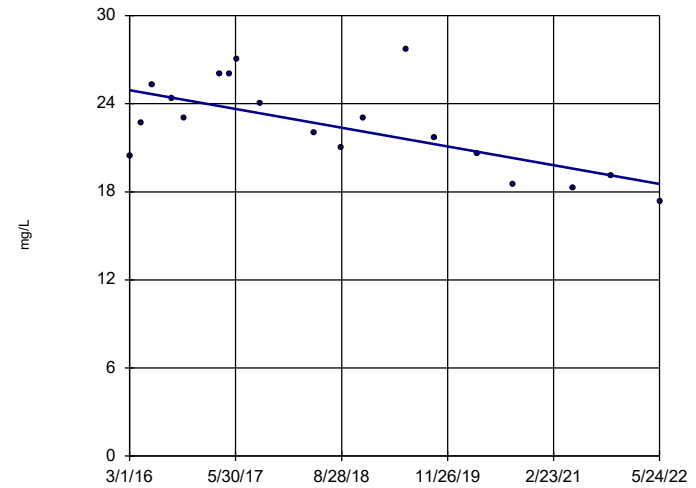
Sen's Slope Estimator BY-AP-MW-8



n = 19
 Slope = 0.08022
 units per year.
 Mann-Kendall
 statistic = 18
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

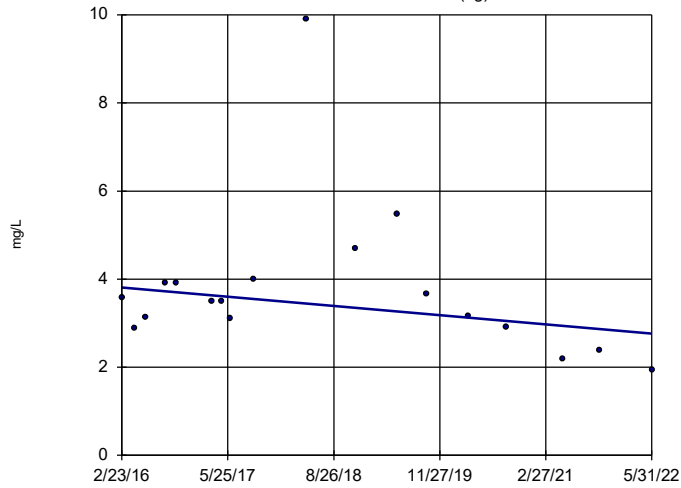
Sen's Slope Estimator BY-AP-MW-9



n = 19
 Slope = -1.025
 units per year.
 Mann-Kendall
 statistic = -69
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

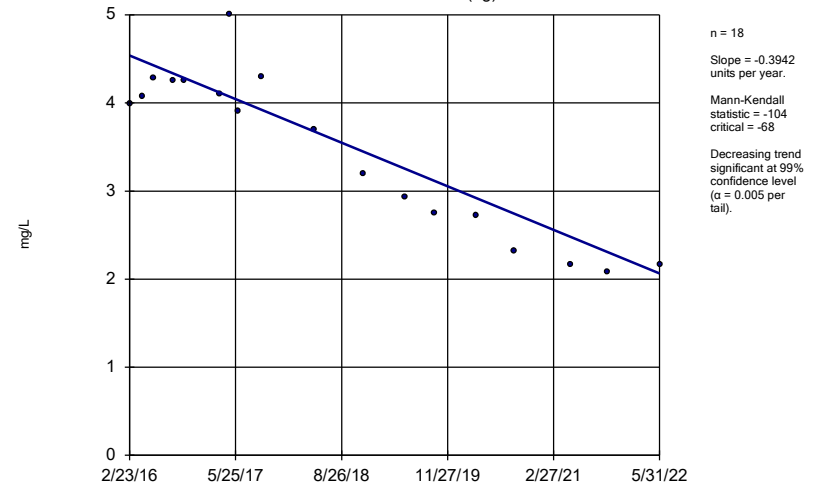
Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-1 (bg)



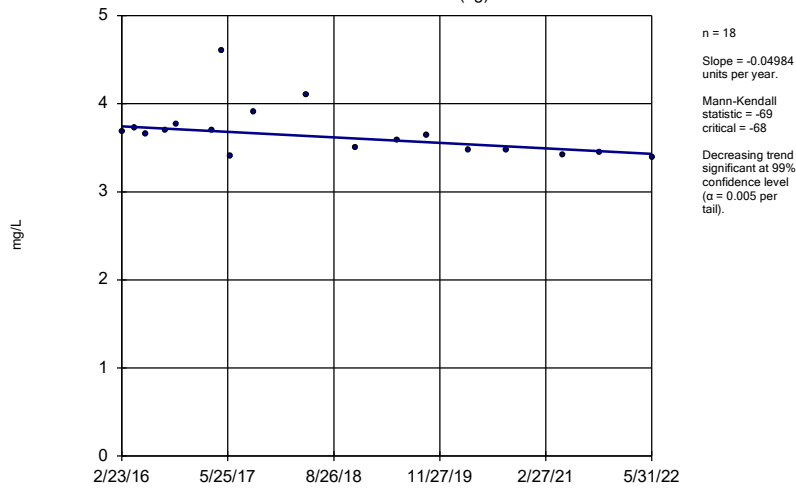
Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-2 (bg)



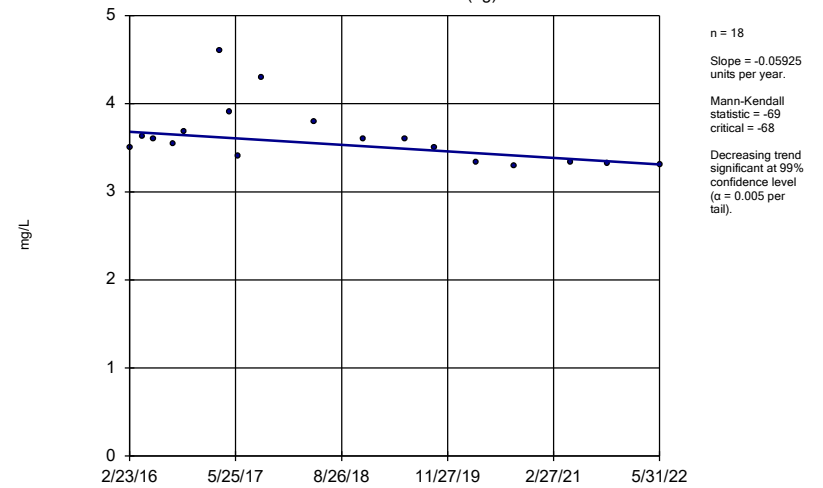
Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-3 (bg)



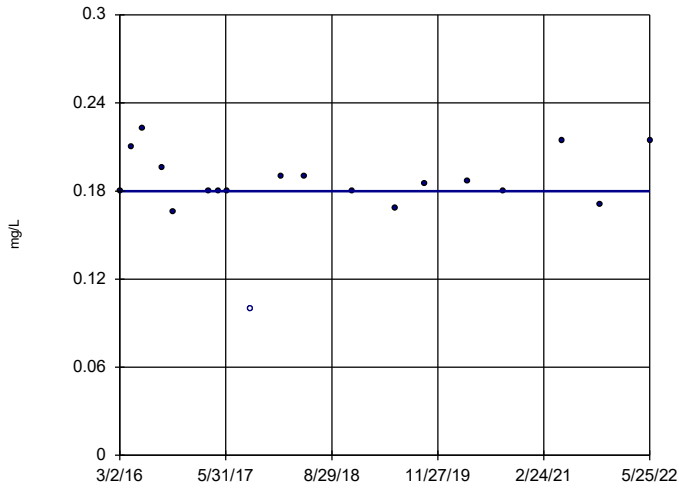
Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-4 (bg)



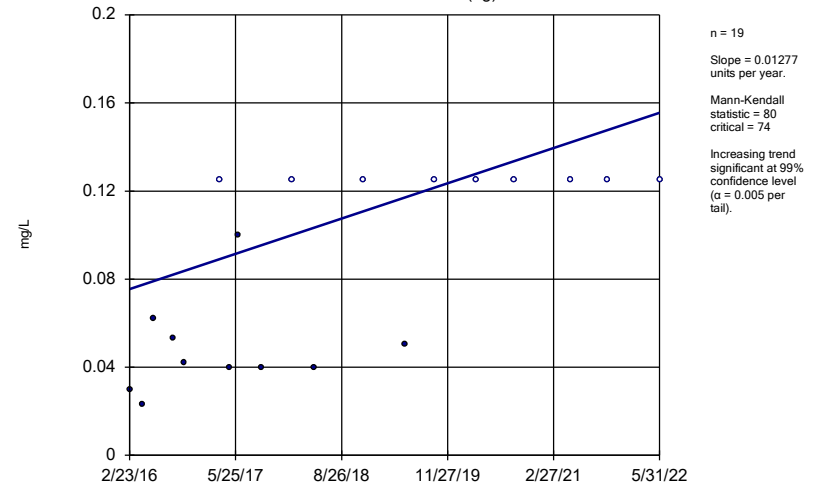
Constituent: Chloride, Total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-15



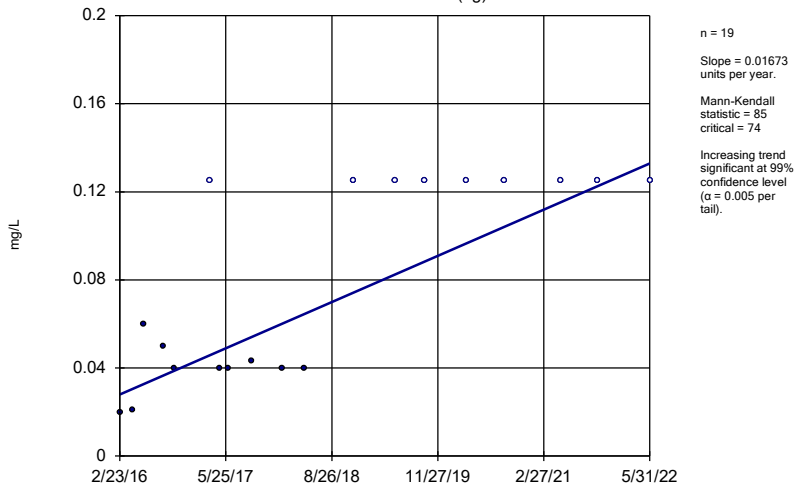
Constituent: Fluoride, total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-1 (bg)



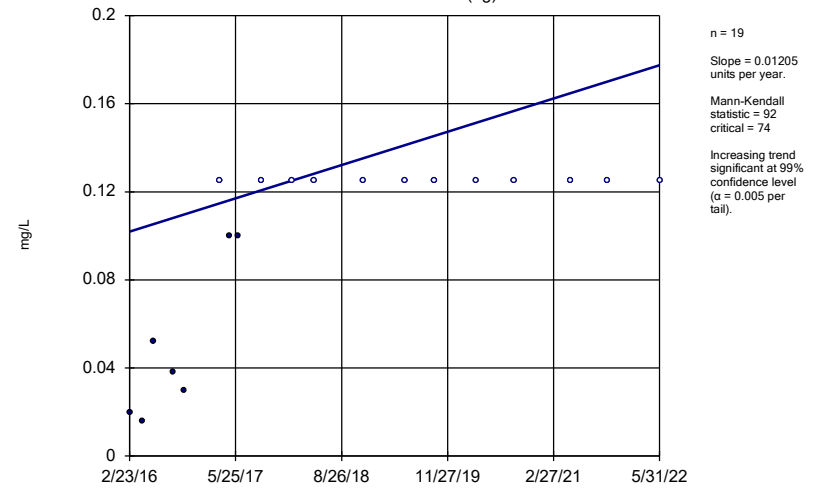
Constituent: Fluoride, total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-2 (bg)



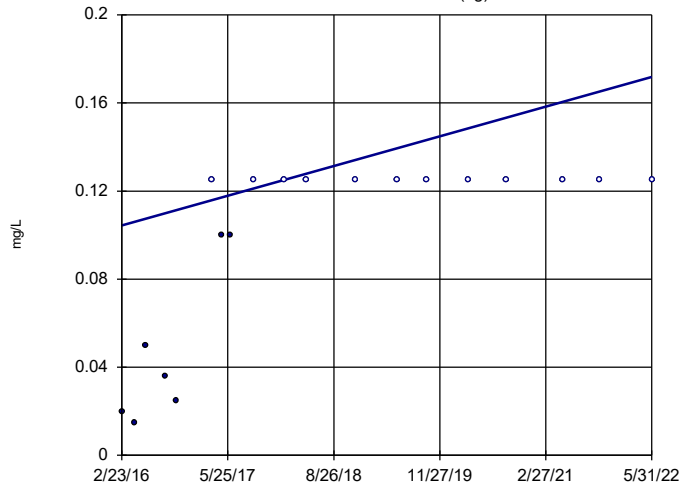
Constituent: Fluoride, total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-3 (bg)



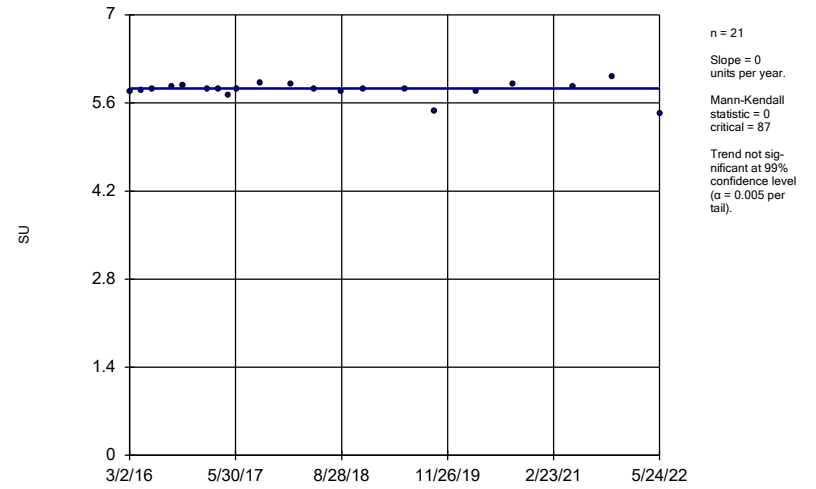
Constituent: Fluoride, total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-4 (bg)



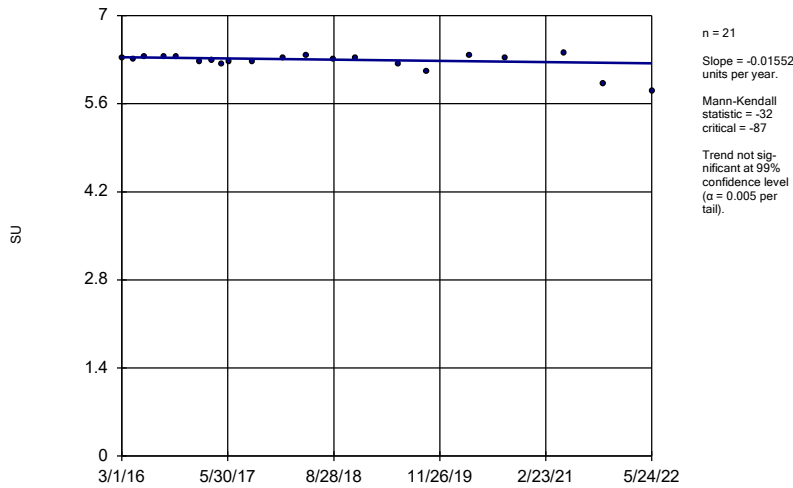
Constituent: Fluoride, total Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-1



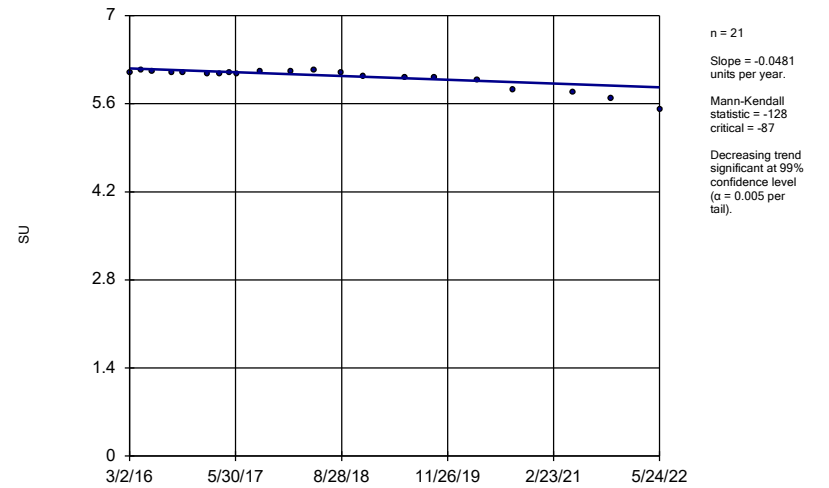
Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-10



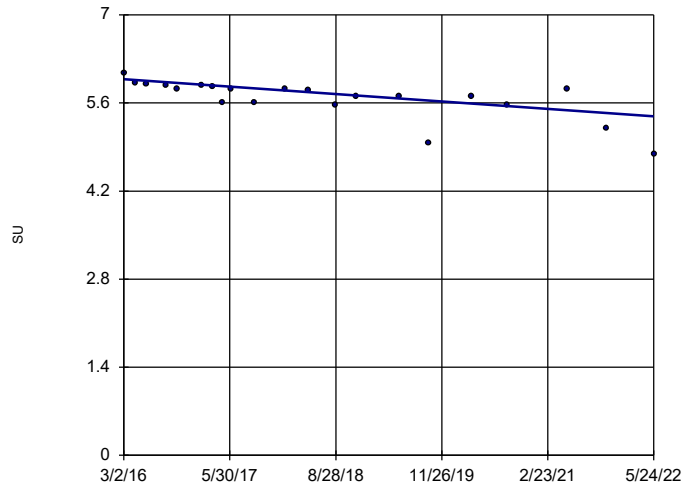
Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-13



Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

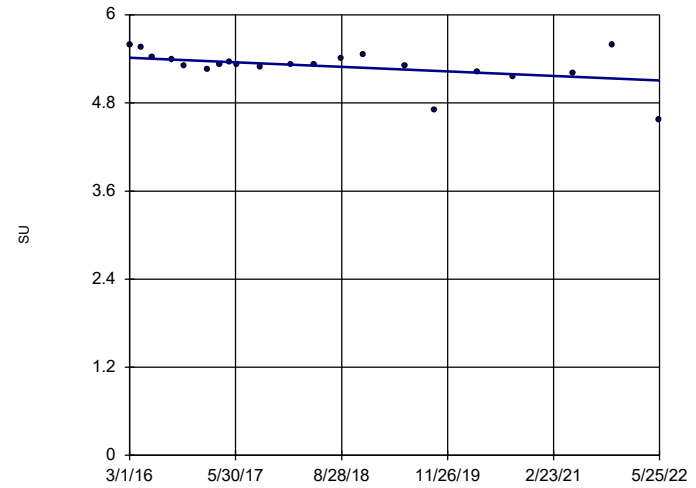
Sen's Slope Estimator BY-AP-MW-2



n = 21
 Slope = -0.09486
 units per year.
 Mann-Kendall
 statistic = -137
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

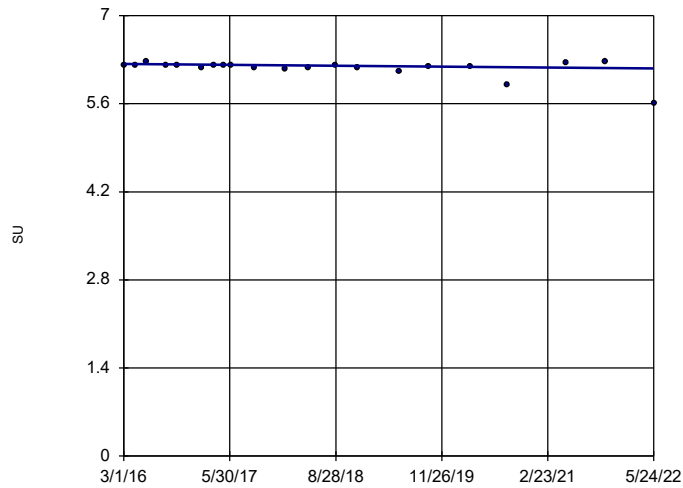
Sen's Slope Estimator BY-AP-MW-6



n = 21
 Slope = -0.04963
 units per year.
 Mann-Kendall
 statistic = -83
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

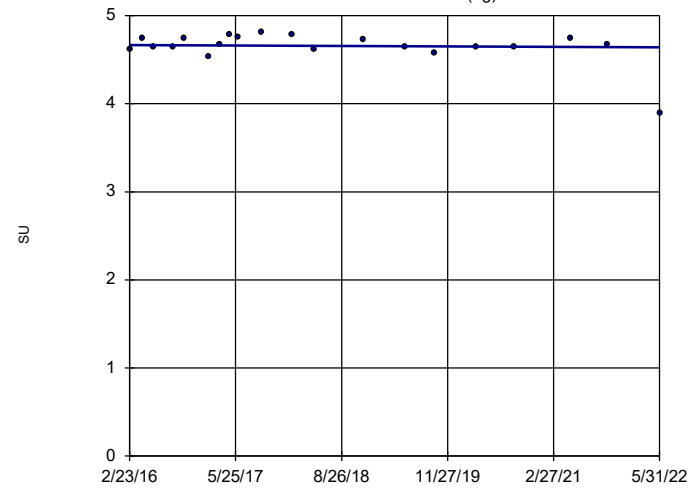
Sen's Slope Estimator BY-AP-MW-8



n = 21
 Slope = -0.01141
 units per year.
 Mann-Kendall
 statistic = -56
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

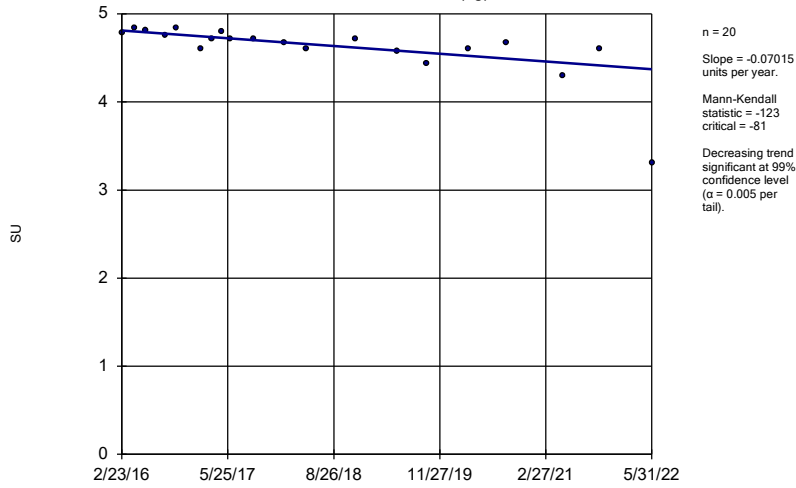
Sen's Slope Estimator BY-UP-MW-1 (bg)



n = 20
 Slope = -0.004287
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

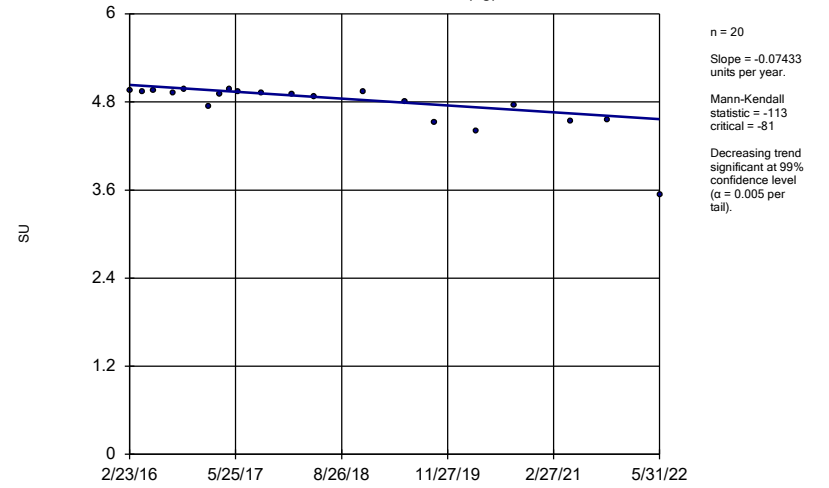
Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-UP-MW-2 (bg)



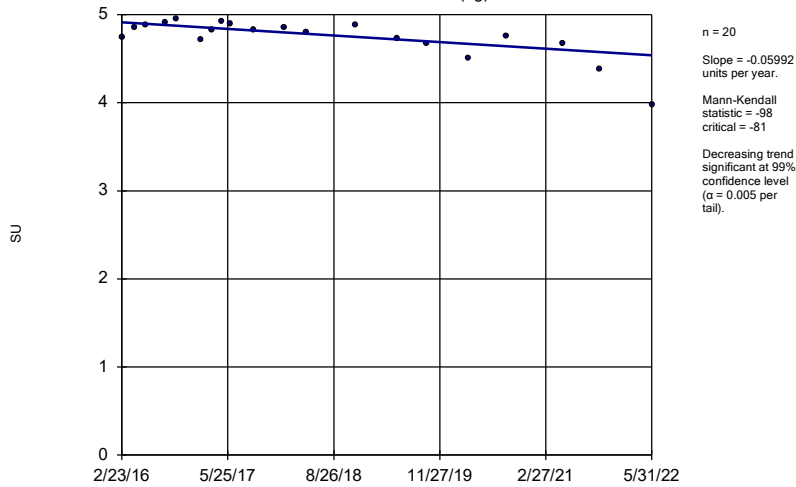
Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-UP-MW-3 (bg)



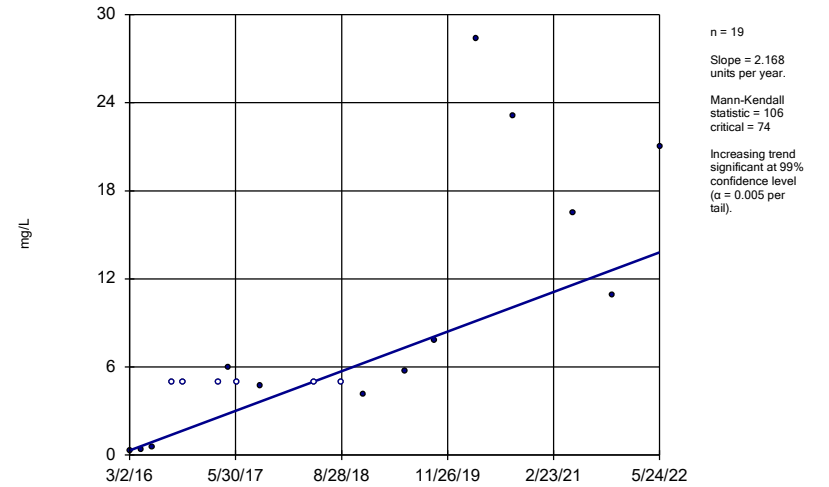
Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-UP-MW-4 (bg)



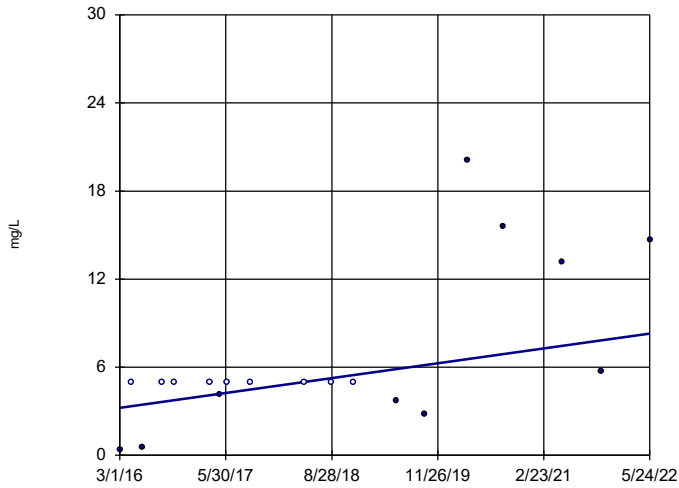
Constituent: pH, field Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator
BY-AP-MW-1



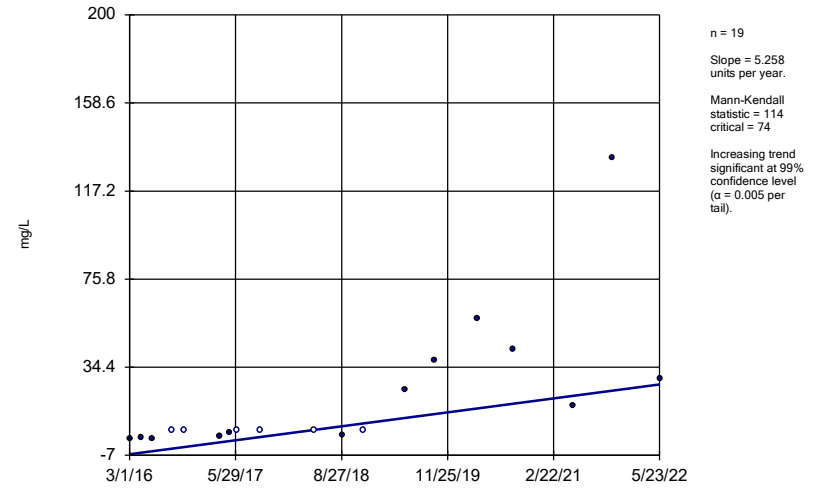
Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-10



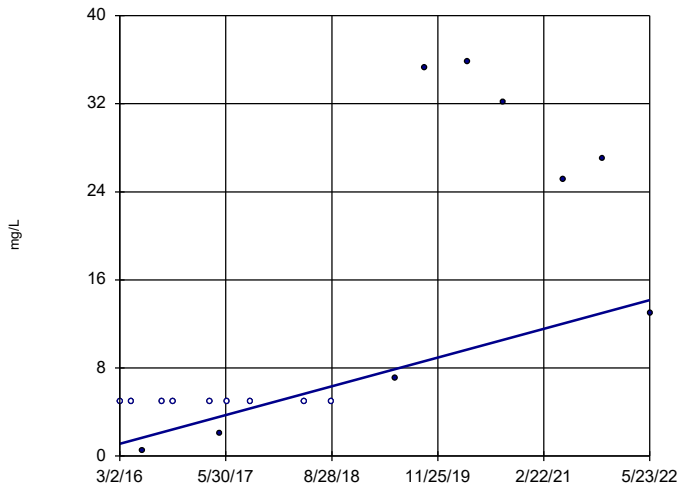
Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-11



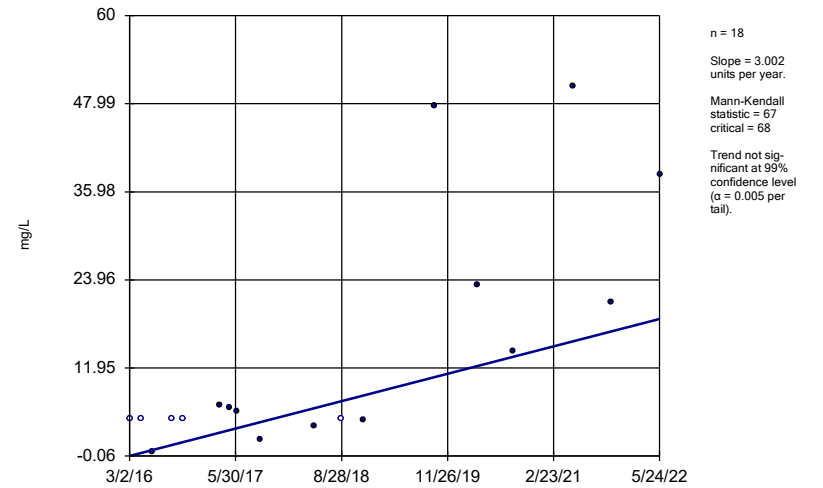
Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-12



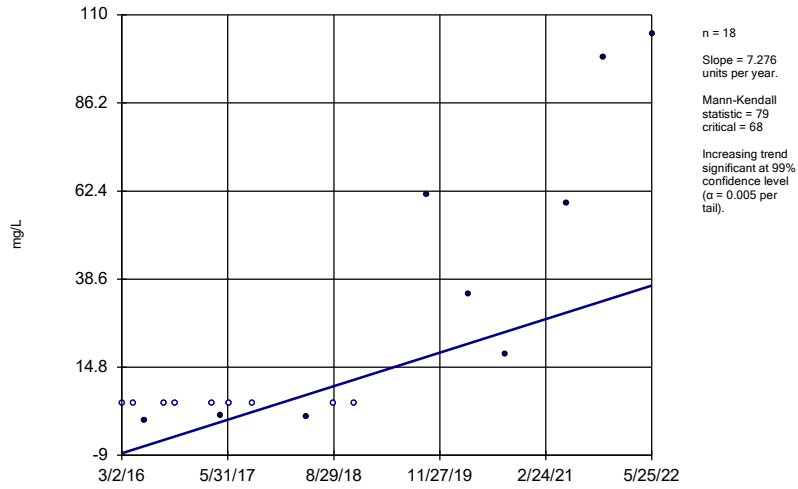
Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-13



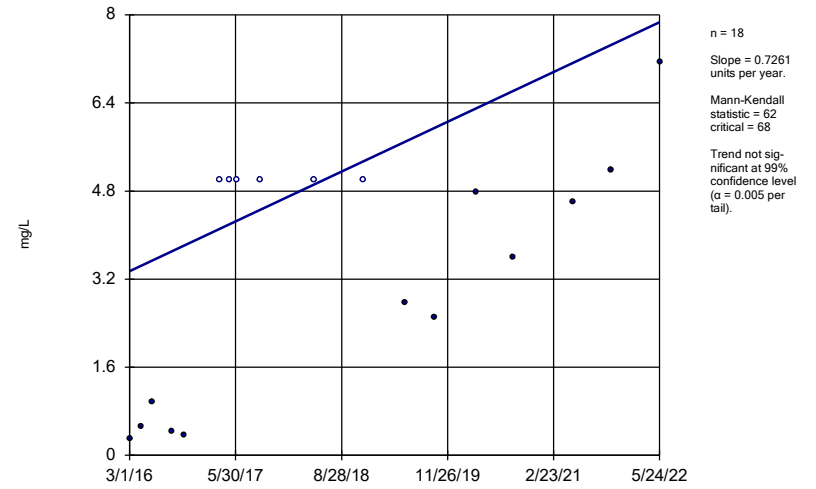
Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-14



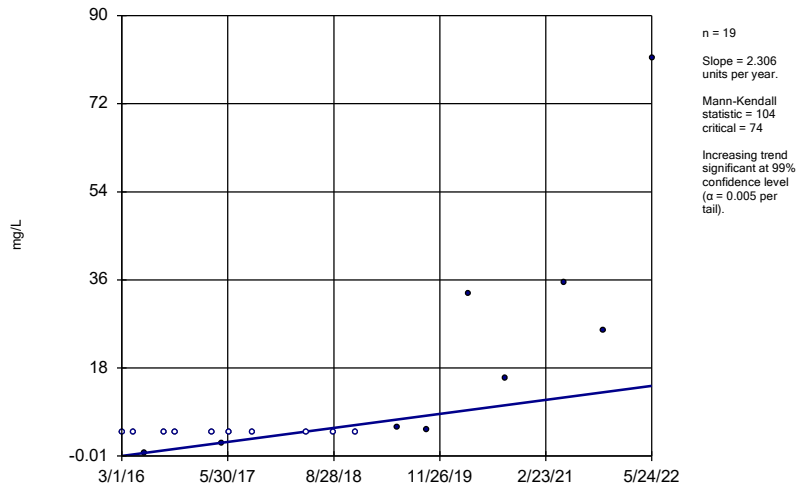
Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-7



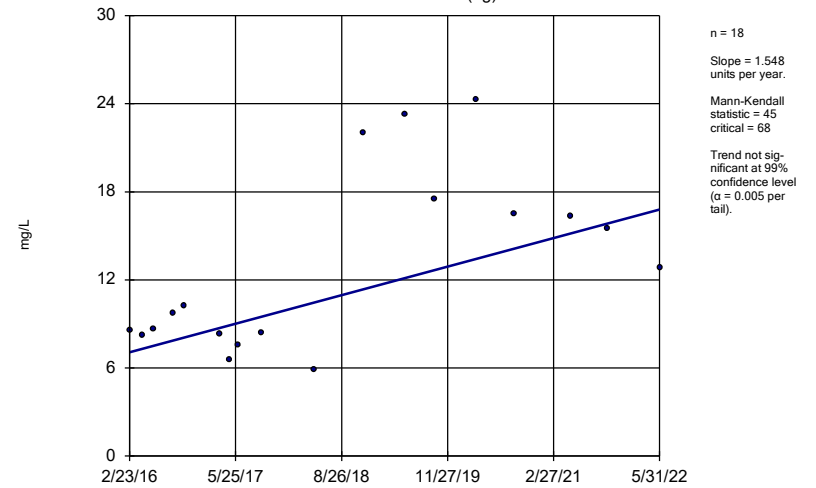
Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-8



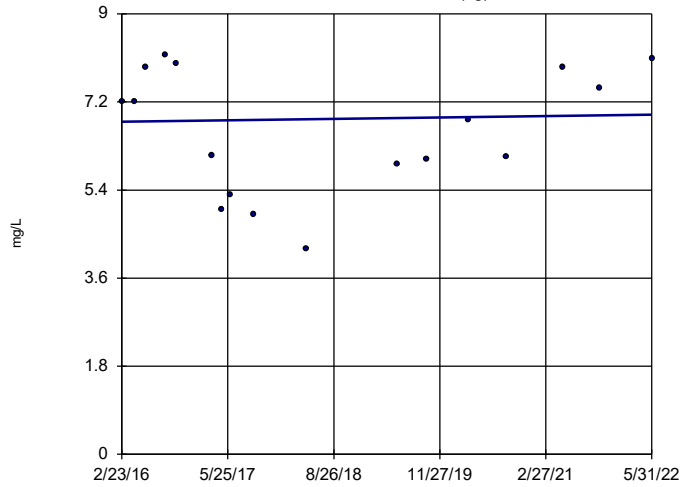
Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-UP-MW-1 (bg)



Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

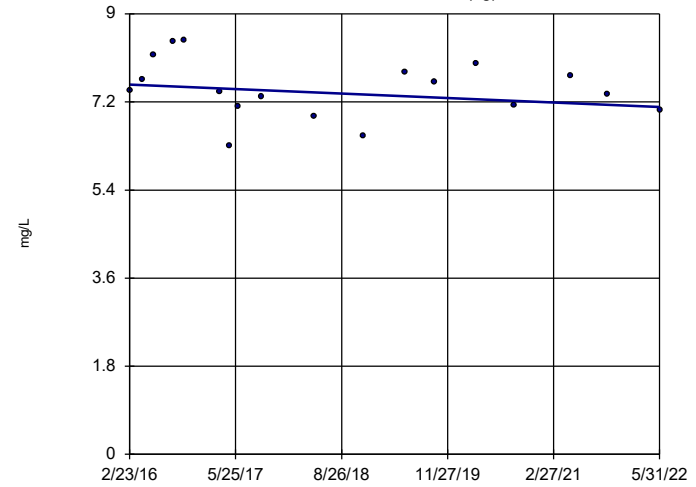
Sen's Slope Estimator BY-UP-MW-2 (bg)



n = 17
 Slope = 0.0231
 units per year.
 Mann-Kendall
 statistic = 3
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

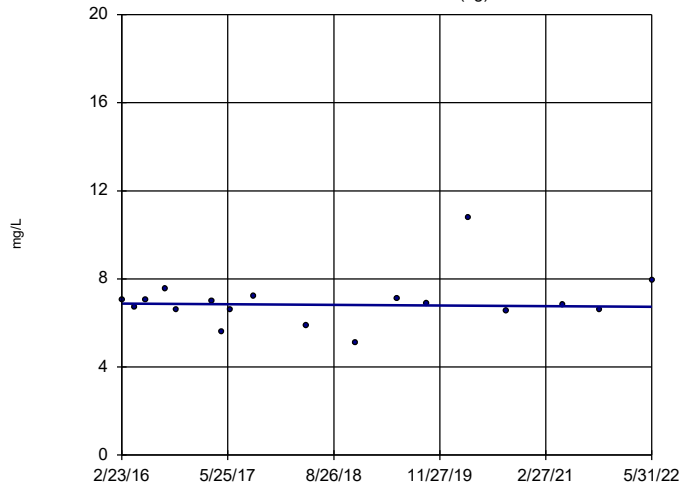
Sen's Slope Estimator BY-UP-MW-3 (bg)



n = 18
 Slope = -0.07308
 units per year.
 Mann-Kendall
 statistic = -27
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

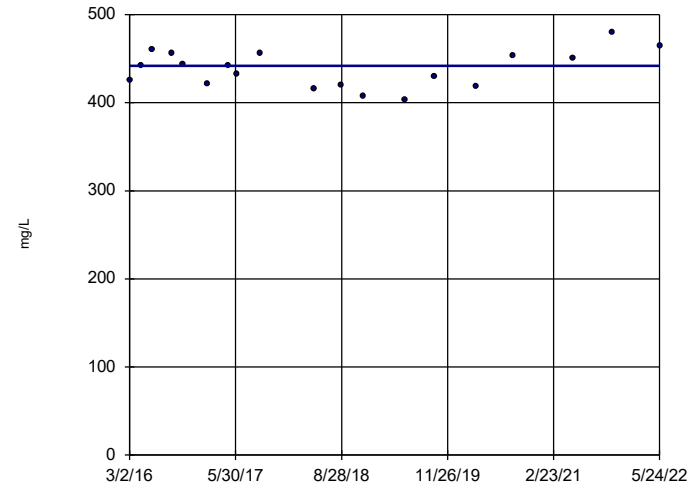
Sen's Slope Estimator BY-UP-MW-4 (bg)



n = 18
 Slope = -0.02454
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Sulfate as SO4 Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-1

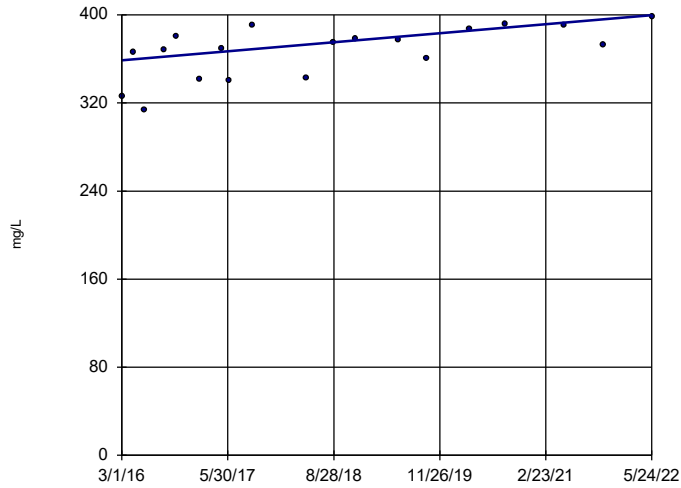


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 1
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

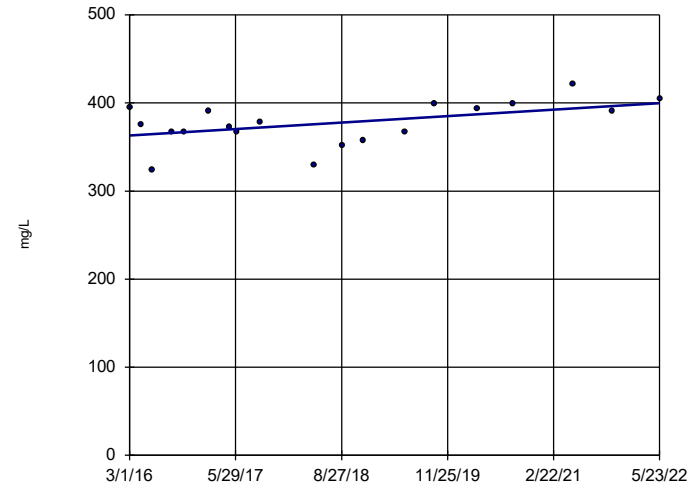


n = 19
 Slope = 6.544
 units per year.
 Mann-Kendall
 statistic = 88
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

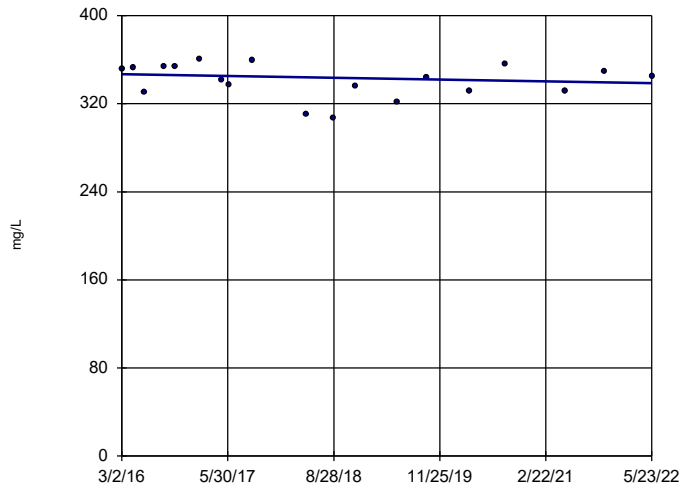


n = 19
 Slope = 5.887
 units per year.
 Mann-Kendall
 statistic = 54
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

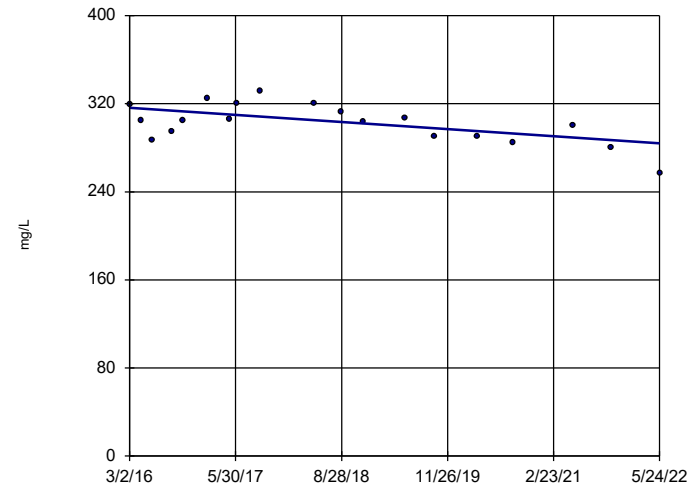


n = 19
 Slope = -1.313
 units per year.
 Mann-Kendall
 statistic = -20
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

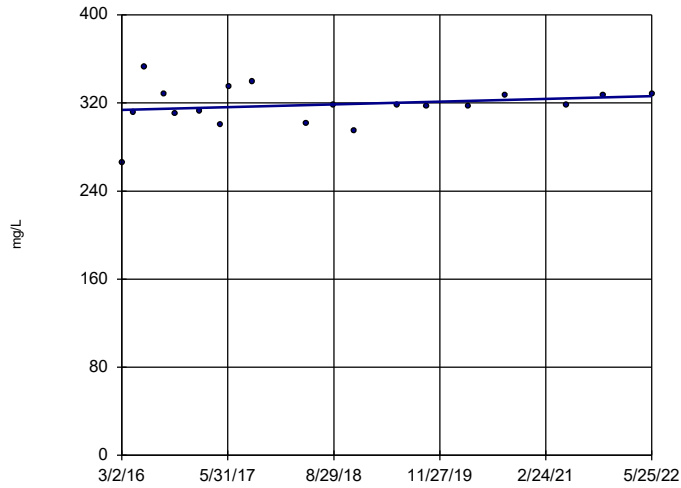


n = 19
 Slope = -5.166
 units per year.
 Mann-Kendall
 statistic = -64
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

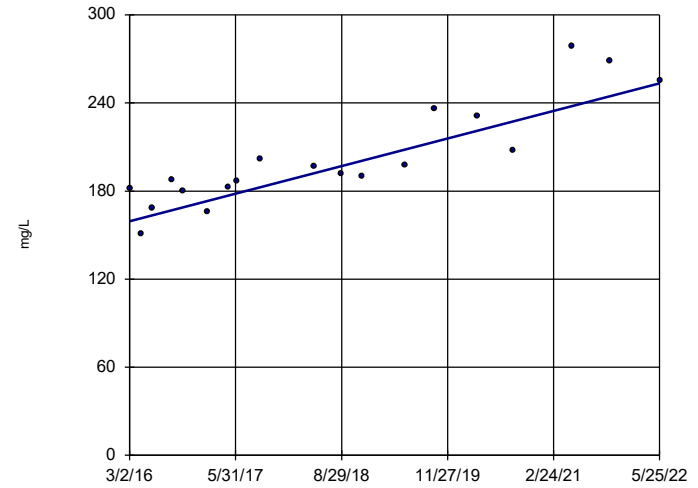


n = 19
 Slope = 2.028
 units per year.
 Mann-Kendall
 statistic = 33
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-15

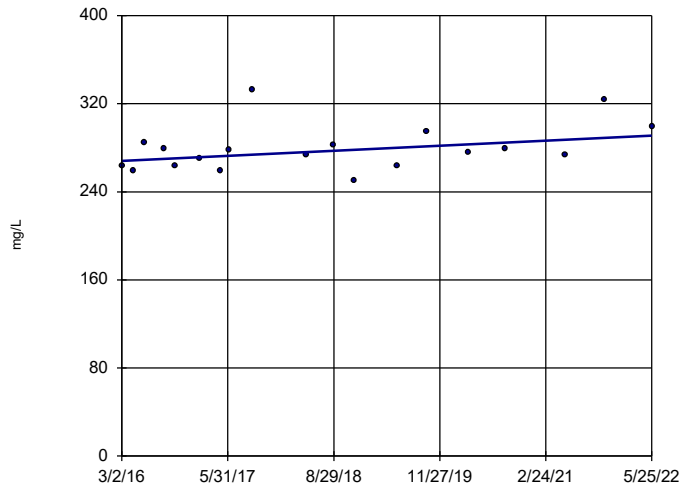


n = 19
 Slope = 15.07
 units per year.
 Mann-Kendall
 statistic = 125
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

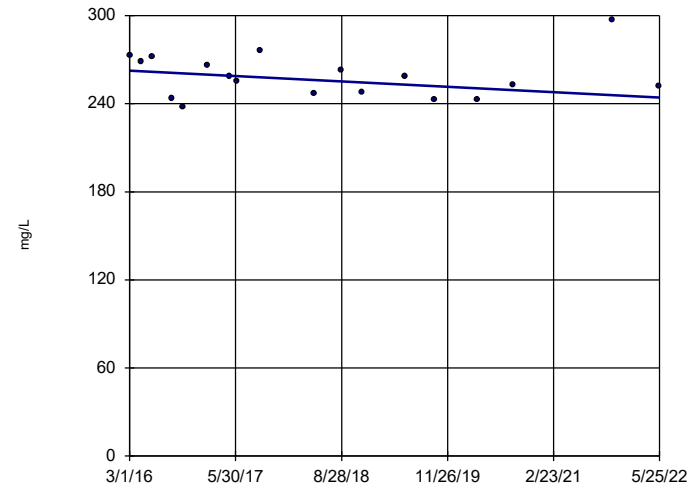


n = 19
 Slope = 3.704
 units per year.
 Mann-Kendall
 statistic = 49
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

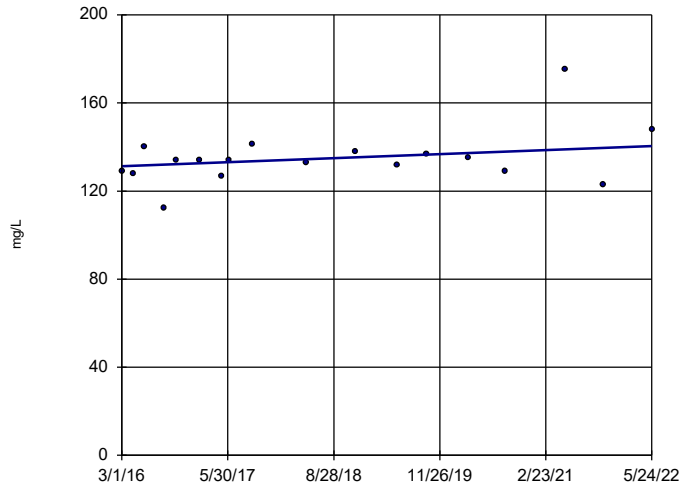
BY-AP-MW-5



n = 18
 Slope = -2.941
 units per year.
 Mann-Kendall
 statistic = -31
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

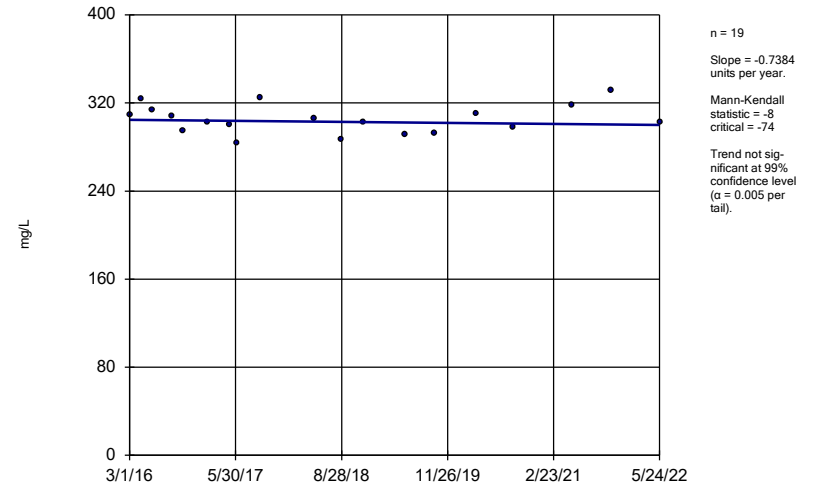
Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-7



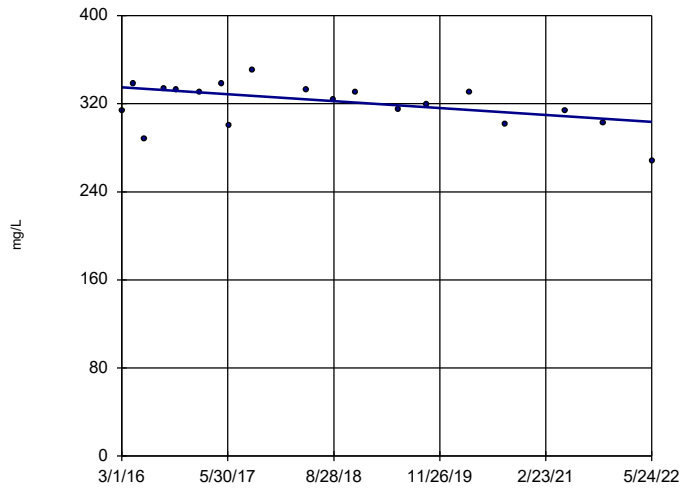
Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-8



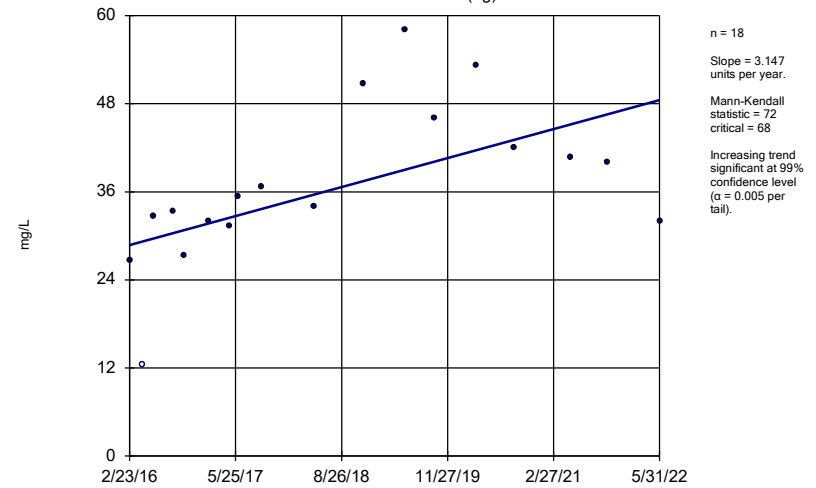
Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator BY-AP-MW-9



Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

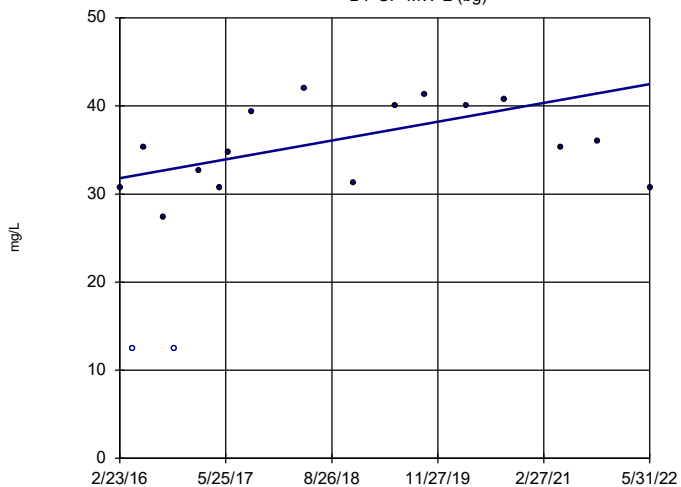
Sen's Slope Estimator BY-UP-MW-1 (bg)



Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-2 (bg)

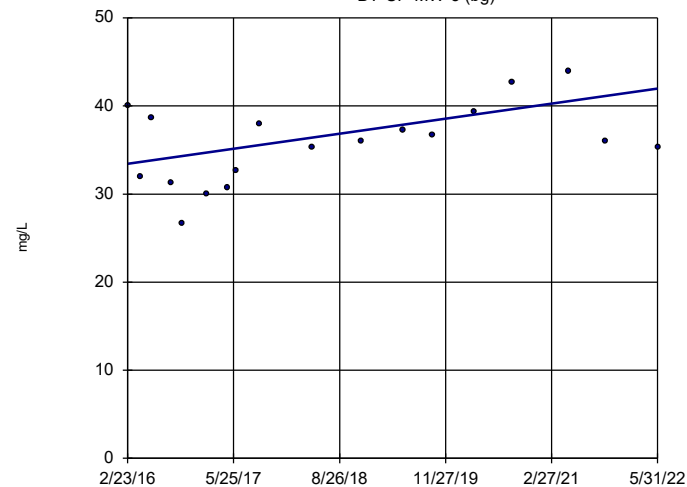


n = 18
Slope = 1.703
units per year.
Mann-Kendall
statistic = 57
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-3 (bg)

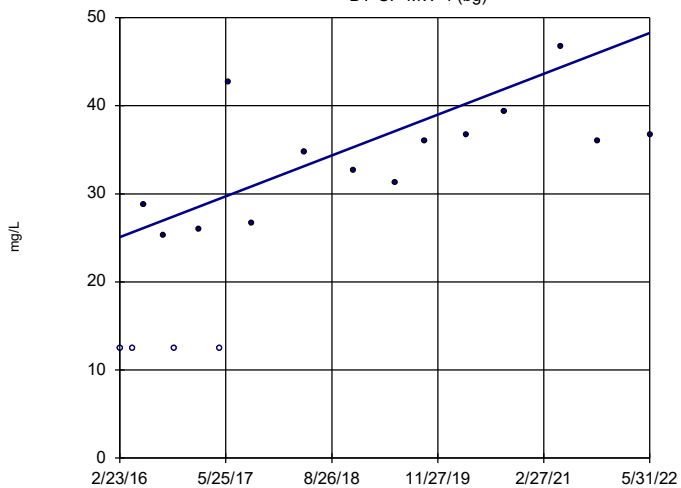


n = 18
Slope = 1.36
units per year.
Mann-Kendall
statistic = 45
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-4 (bg)



n = 18
Slope = 3.695
units per year.
Mann-Kendall
statistic = 95
critical = 68
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 7/20/2022 3:24 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE G.

Upper Tolerance Limits - Summary Table

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 1/19/2022, 3:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	92.65	n/a	n/a	0.03056	NP Inter
Arsenic (mg/L)	n/a	0.0017	n/a	n/a	n/a	68	n/a	n/a	88.24	n/a	n/a	0.03056	NP Inter
Barium (mg/L)	n/a	0.183	n/a	n/a	n/a	68	n/a	n/a	0	n/a	n/a	0.03056	NP Inter
Beryllium (mg/L)	n/a	0.00102	n/a	n/a	n/a	66	n/a	n/a	93.94	n/a	n/a	0.03387	NP Inter
Cadmium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	68	n/a	n/a	83.82	n/a	n/a	0.03056	NP Inter
Cobalt (mg/L)	n/a	0.0157	n/a	n/a	n/a	67	n/a	n/a	58.21	n/a	n/a	0.03217	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	3	n/a	n/a	n/a	60	n/a	n/a	0	n/a	n/a	0.04607	NP Inter
Fluoride, total (mg/L)	n/a	0.1	n/a	n/a	n/a	72	n/a	n/a	52.78	n/a	n/a	0.02489	NP Inter
Lead (mg/L)	n/a	0.00126	n/a	n/a	n/a	68	n/a	n/a	89.71	n/a	n/a	0.03056	NP Inter
Lithium (mg/L)	n/a	0.02	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Molybdenum (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Selenium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Thallium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter

FIGURE H.

BARRY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.0017	0.01
Barium	mg/L	0.183	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0157	0.0157
Combined Radium-226/228	pCi/L	3	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.00126	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0002	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.0002	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

FIGURE I.

Confidence Interval Summary Table - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07688	0.05769	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07651	0.06677	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01648	0.01374	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.0246	0.0215	0.01	Yes	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-13	0.01495	0.01312	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-14	0.0182	0.01473	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01954	0.01573	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01434	0.01096	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-5	0.03536	0.02914	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-7	0.02326	0.01926	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06545	0.05105	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04498	0.03737	0.01	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-15	0.037	0.03248	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-7	0.02135	0.01752	0.0157	Yes	8	0	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07688	0.05769	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07651	0.06677	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01648	0.01374	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.0246	0.0215	0.01	Yes	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-13	0.01495	0.01312	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-14	0.0182	0.01473	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01954	0.01573	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01434	0.01096	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-2	0.001765	0.00125	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-4	0.0002	0.0001	0.01	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-5	0.03536	0.02914	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-6	0.000103	0.0001	0.01	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-7	0.02326	0.01926	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06545	0.05105	0.01	Yes	8	0	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04498	0.03737	0.01	Yes	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-1	0.3384	0.2783	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-10	0.07502	0.06196	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-11	0.09918	0.06777	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-12	0.08641	0.07752	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-13	0.07647	0.06744	2	No	8	0	ln(x)	0.01	Param.
Barium (mg/L)	BY-AP-MW-14	0.07075	0.0594	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-15	0.08085	0.05845	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-16	0.1005	0.08087	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-2	0.02663	0.02375	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-3	0.04373	0.03406	2	No	8	0	sqrt(x)	0.01	Param.
Barium (mg/L)	BY-AP-MW-4	0.03257	0.01483	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-5	0.1575	0.1412	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-6	0.02913	0.02379	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-7	0.07229	0.06041	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-8	0.1473	0.1367	2	No	8	0	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-9	0.1232	0.1143	2	No	8	0	No	0.01	Param.
Beryllium (mg/L)	BY-AP-MW-4	0.00102	0.00065	0.004	No	8	75	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-6	0.00031	0.00007	0.005	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-1	0.00415	0.00223	0.1	No	8	0	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-10	0.00102	0.00052	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-11	0.003956	0.002066	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-12	0.0056	0.00325	0.1	No	8	0	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-13	0.008713	0.006678	0.1	No	8	0	ln(x)	0.01	Param.
Chromium (mg/L)	BY-AP-MW-14	0.005123	0.003732	0.1	No	8	0	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-15	0.00102	0.00049	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-16	0.0018	0.00102	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-2	0.00102	0.00029	0.1	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-3	0.00104	0.000919	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-4	0.00102	0.00026	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-5	0.00103	0.00101	0.1	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-6	0.00102	0.00023	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-7	0.00709	0.00058	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-8	0.00165	0.00102	0.1	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-9	0.00102	0.0007	0.1	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-1	0.005	0.00091	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-10	0.005	0.00054	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-11	0.005	0.00118	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-12	0.003937	0.00292	0.0157	No	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-13	0.005	0.00113	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-14	0.005	0.00124	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-15	0.037	0.03248	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-16	0.02062	0.01343	0.0157	No	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-2	0.007575	0.006423	0.0157	No	8	0	x^2	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-3	0.005	0.00016	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-4	0.0205	0.00363	0.0157	No	8	12.5	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-5	0.005	0.00184	0.0157	No	8	75	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-6	0.005	0.0006	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-7	0.02135	0.01752	0.0157	Yes	8	0	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-8	0.005	0.00067	0.0157	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-9	0.005	0.00069	0.0157	No	8	62.5	No	0.004	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-1	2.783	1.67	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-10	1.332	0.3915	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-11	0.8362	0.3081	5	No	8	0	sqrt(x)	0.01	Param.

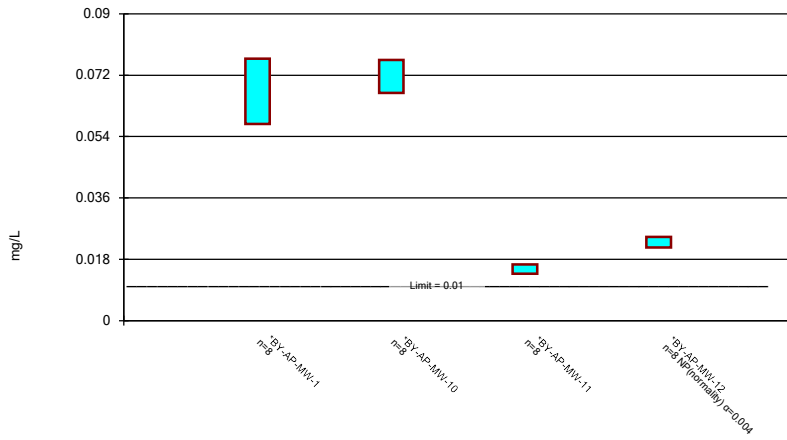
Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 7/20/2022, 3:37 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-12	1.76	0.8804	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-13	1.375	0.5961	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-14	1.124	0.476	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-15	1.443	0.3816	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-16	1.569	0.285	5	No	8	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-2	0.9189	0.3196	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-3	1.8	0.3065	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-4	0.9614	0.3385	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-5	2.221	0.9224	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-6	1.312	-0.03787	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-7	1.116	0.294	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-8	1.054	0.4141	5	No	8	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-9	1.478	0.636	5	No	8	0	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-1	0.194	0.0625	4	No	8	12.5	No	0.004	NP (normality)
Fluoride, total (mg/L)	BY-AP-MW-10	0.105	0.0573	4	No	8	62.5	No	0.004	NP (NDs)
Fluoride, total (mg/L)	BY-AP-MW-11	0.09643	0.06172	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-12	0.09011	0.05424	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-13	0.07751	0.05904	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-14	0.09472	0.06606	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-15	0.2059	0.1691	4	No	8	0	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-16	0.08512	0.06444	4	No	8	37.5	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-5	0.09618	0.05716	4	No	8	25	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-7	0.1062	0.07458	4	No	8	0	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-8	0.09399	0.06127	4	No	8	37.5	ln(x)	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-9	0.08187	0.05408	4	No	8	12.5	No	0.01	Param.
Lead (mg/L)	BY-AP-MW-11	0.0002	0.00009	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-12	0.000326	0.00018	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-13	0.0002	0.00015	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-14	0.0002	0.0000764	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-16	0.0002	0.000191	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-4	0.0002	0.00007	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-6	0.006786	0.0006176	0.015	No	8	12.5	sqrt(x)	0.01	Param.
Lead (mg/L)	BY-AP-MW-9	0.00108	0.0002	0.015	No	8	87.5	No	0.004	NP (NDs)
Lithium (mg/L)	BY-AP-MW-11	0.02902	0.00914	0.04	No	8	25	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-15	0.02368	0.01029	0.04	No	8	12.5	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-7	0.0882	0.0102	0.04	No	8	75	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-1	0.0002	0.00008	0.1	No	8	75	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-11	0.00652	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-12	0.00109	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-13	0.00356	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-14	0.000701	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-15	0.00209	0.0002	0.1	No	8	50	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-16	0.0002	0.000136	0.1	No	8	87.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-5	0.0002	0.00011	0.1	No	8	75	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-6	0.00033	0.00011	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-7	0.000214	0.00018	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-8	0.000321	0.00019	0.1	No	8	62.5	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-9	0.00024	0.0002	0.1	No	8	62.5	No	0.004	NP (NDs)
Selenium (mg/L)	BY-AP-MW-13	0.00102	0.00056	0.05	No	8	87.5	No	0.004	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

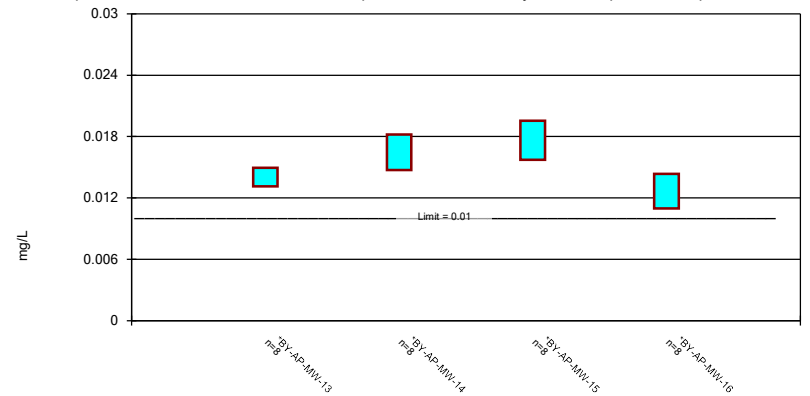
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

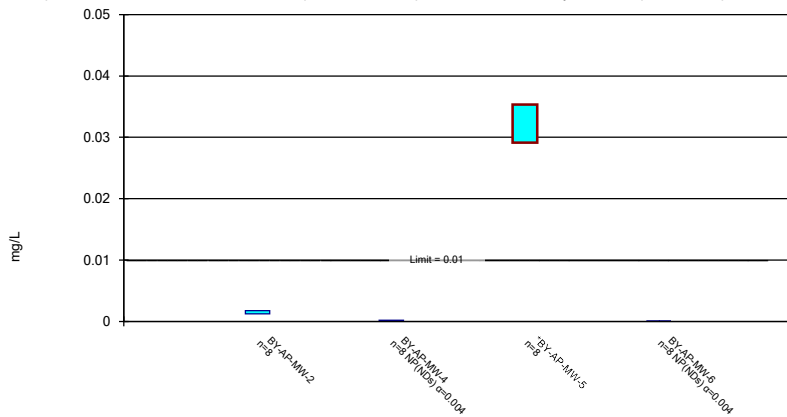
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

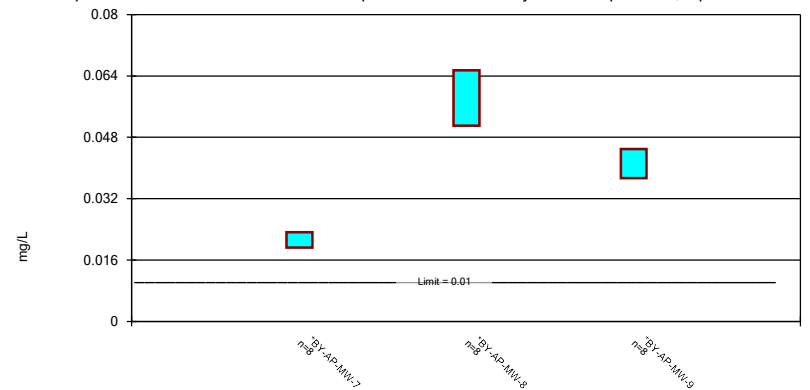
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

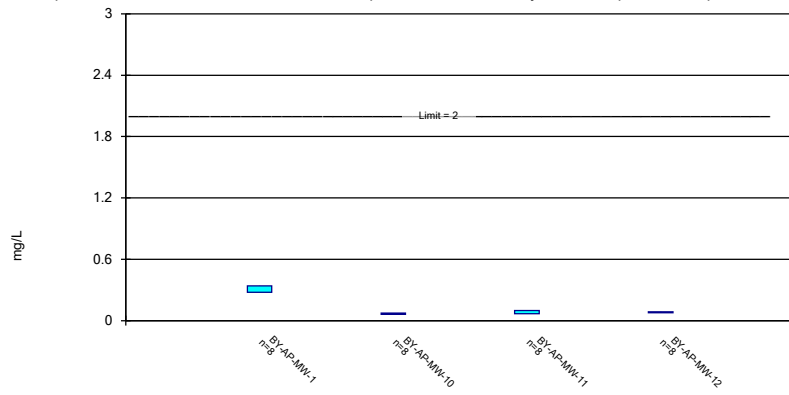
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

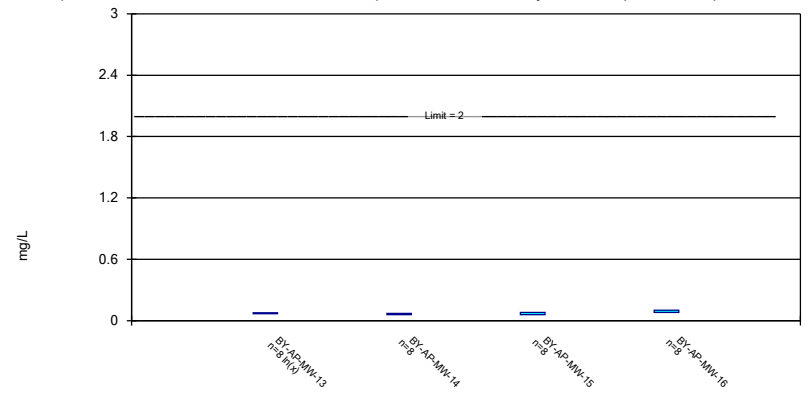
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

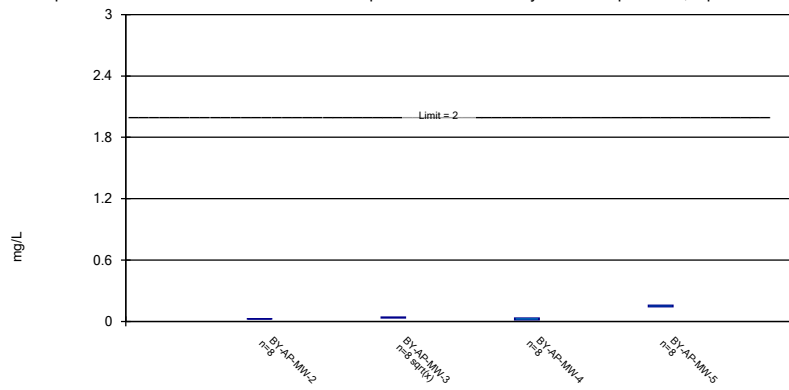
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

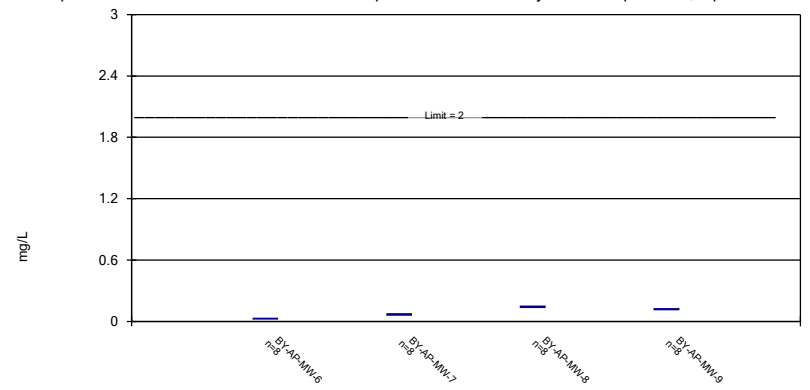
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

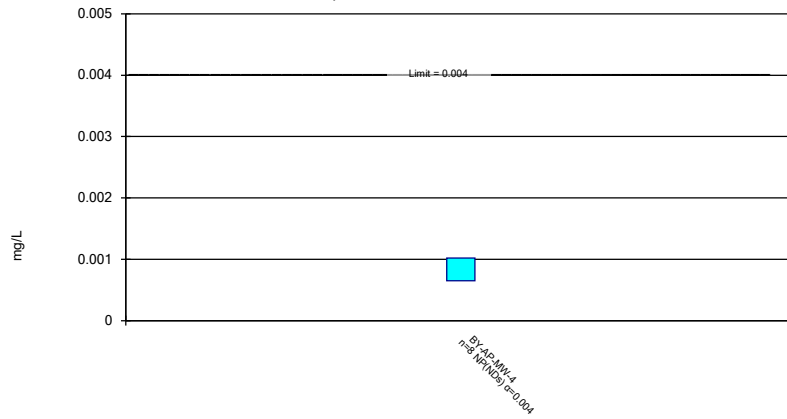
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

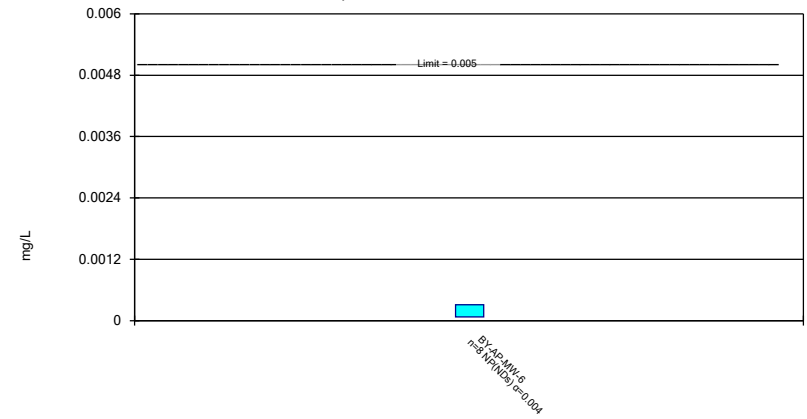
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

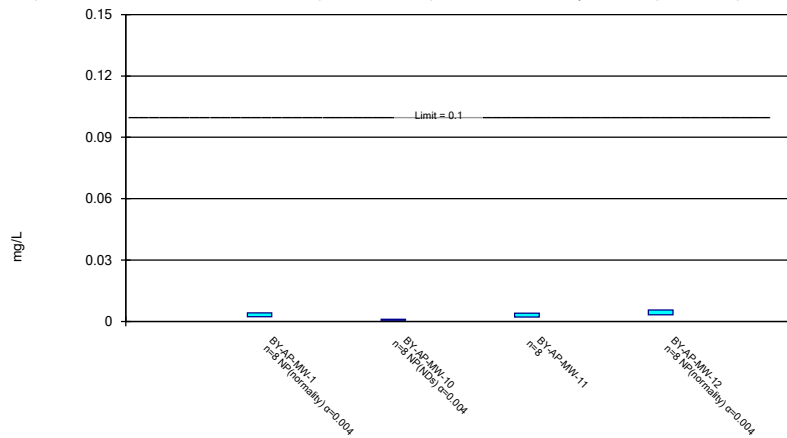
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

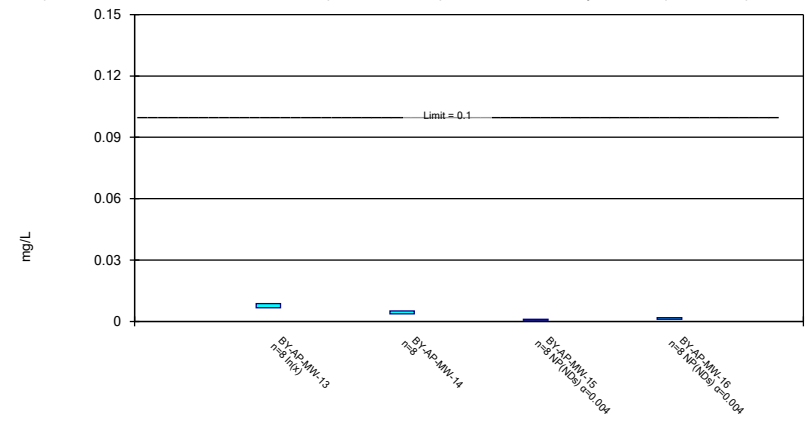
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

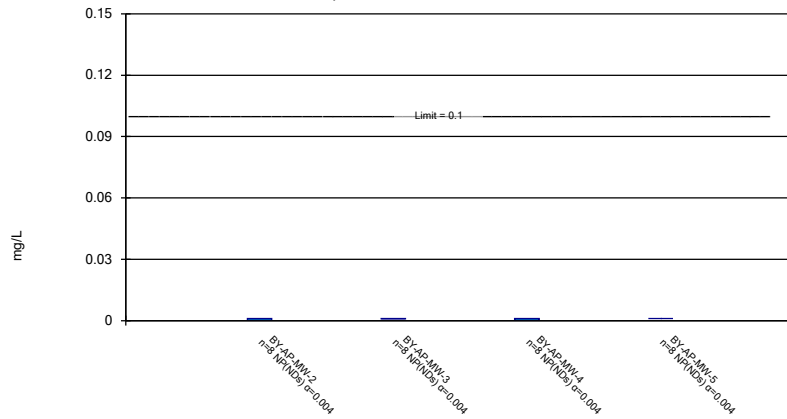
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

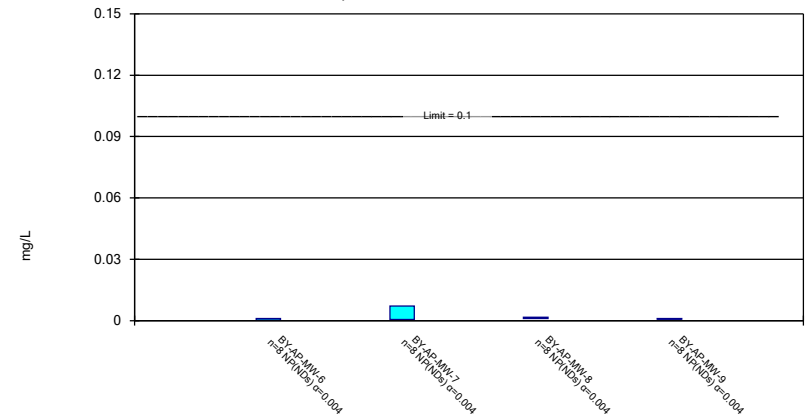
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

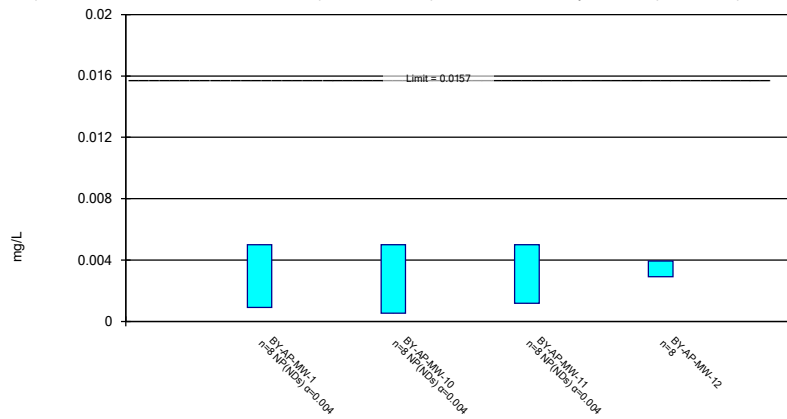
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

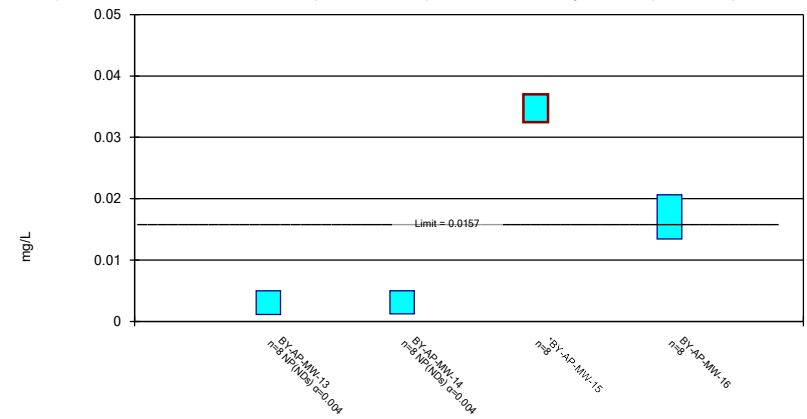
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

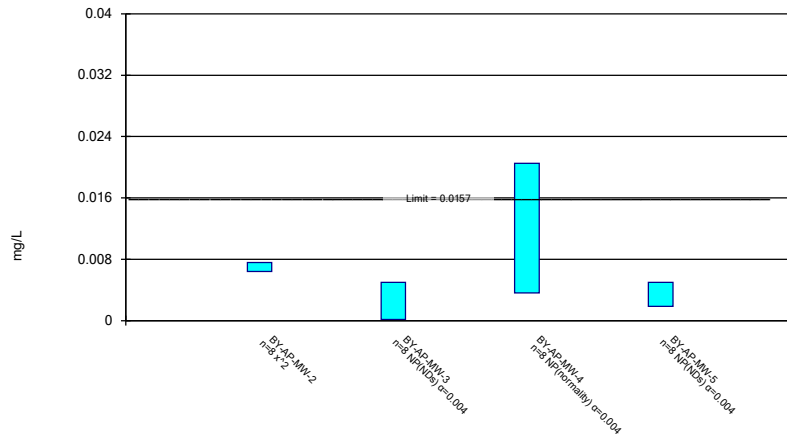
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

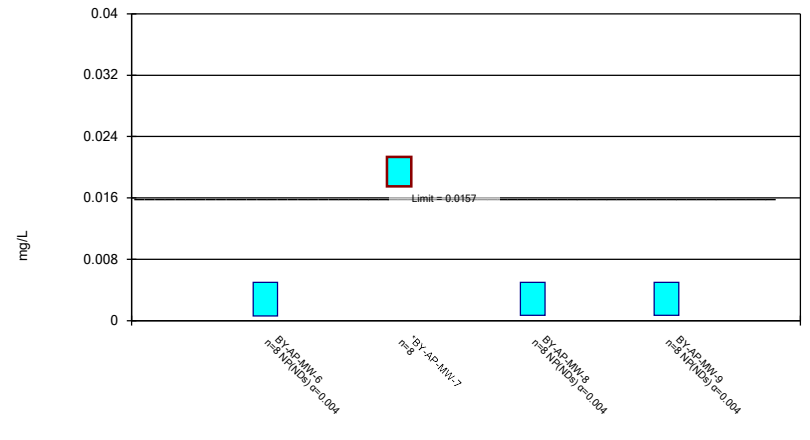
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

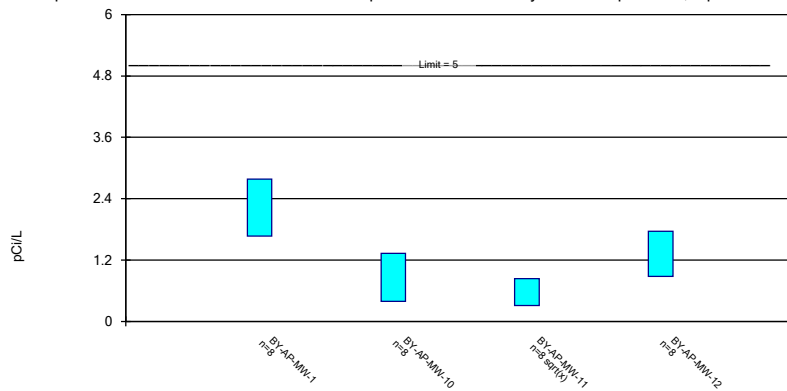
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

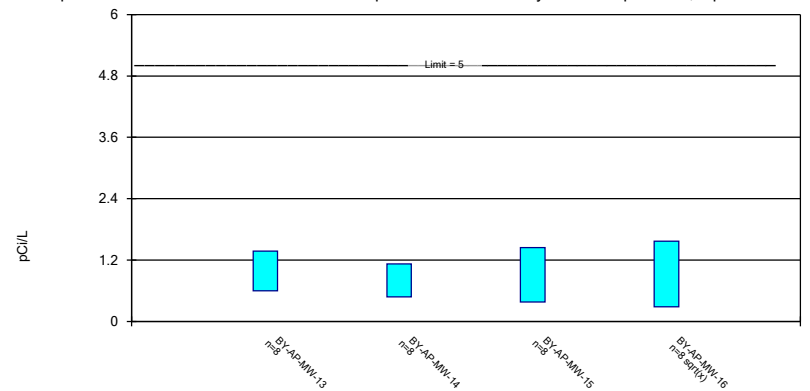
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

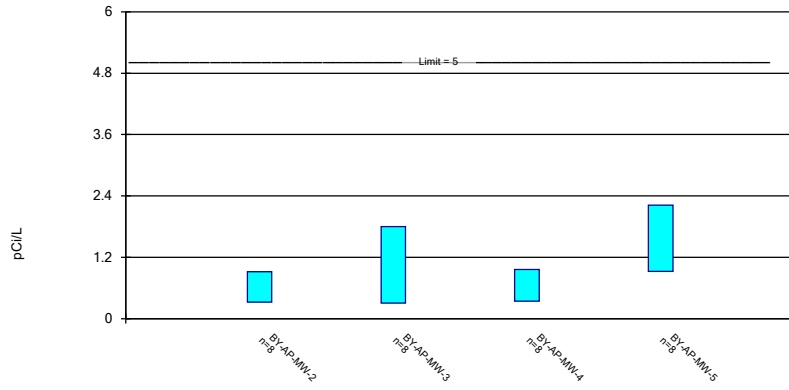
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

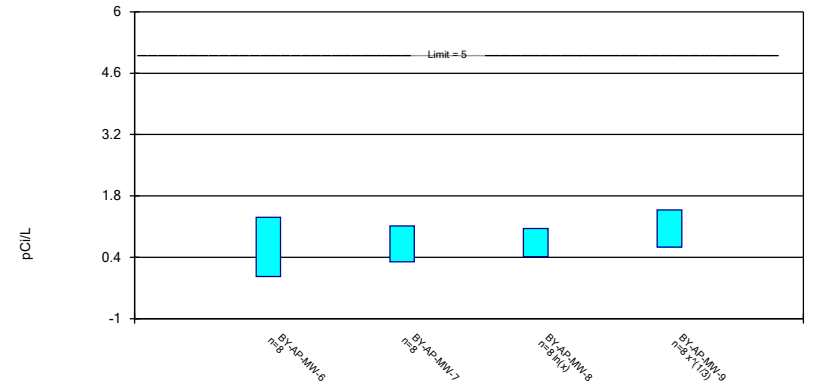
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/20/2022 3:35 PM View: AIV
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

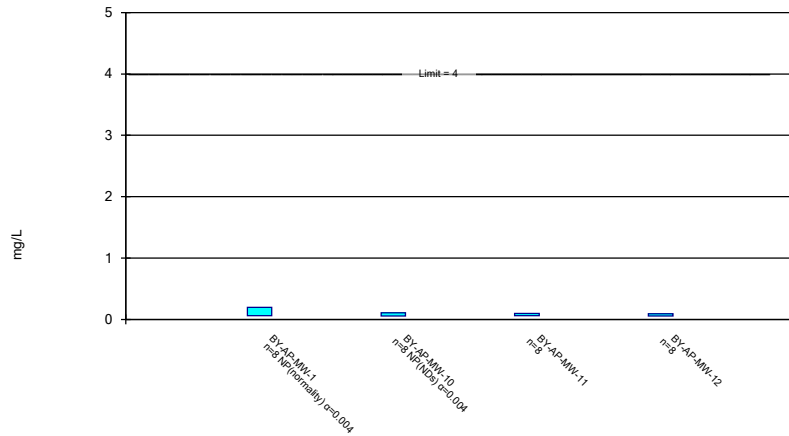
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 7/20/2022 3:35 PM View: AIV
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

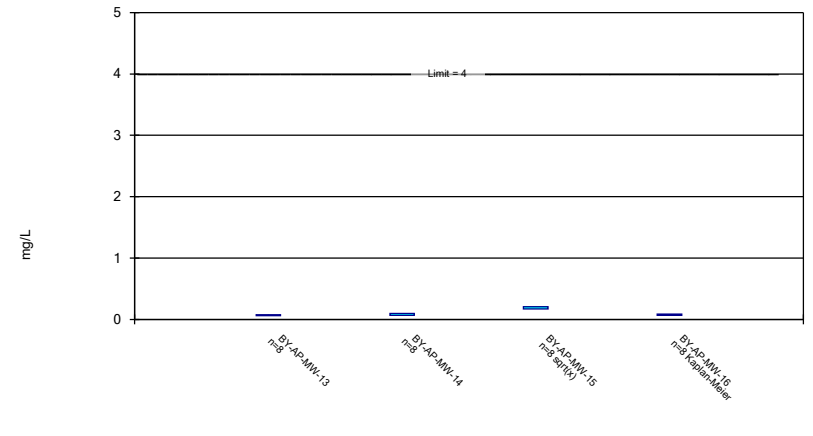
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/20/2022 3:35 PM View: AIV
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

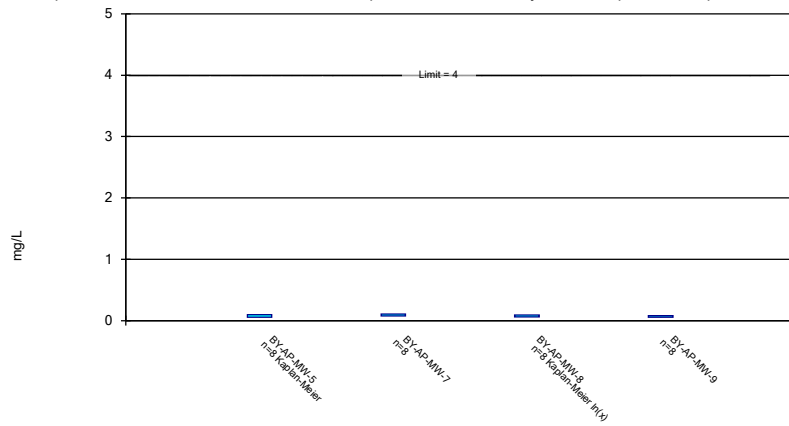
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/20/2022 3:35 PM View: AIV
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

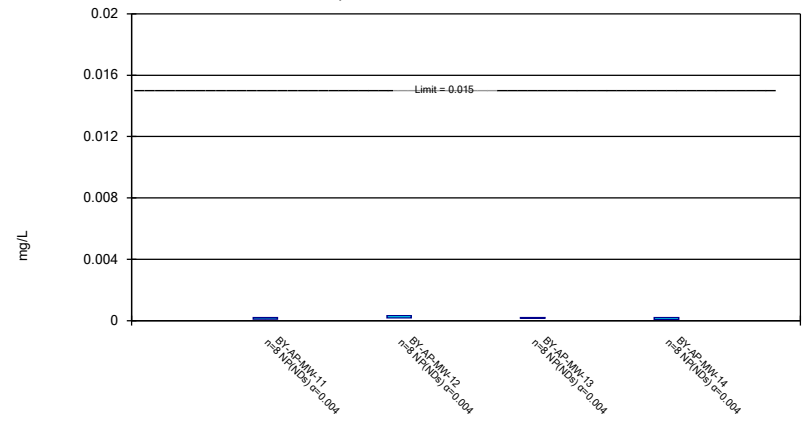
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

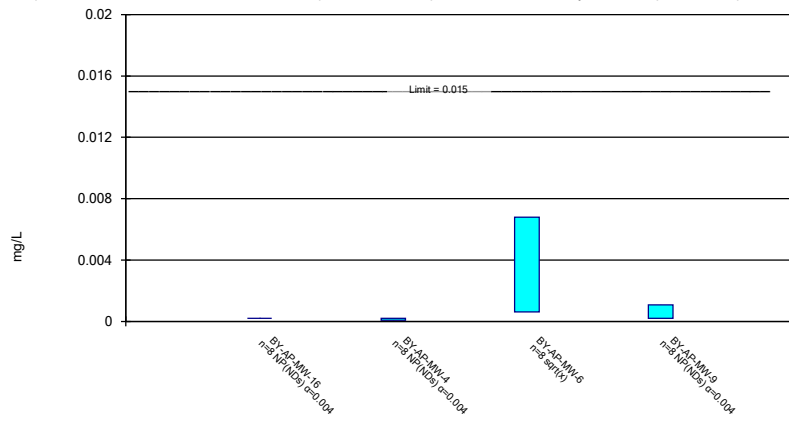
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

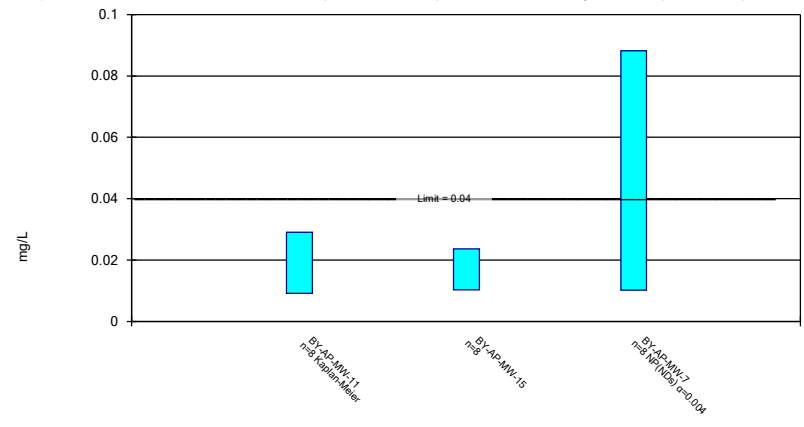
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

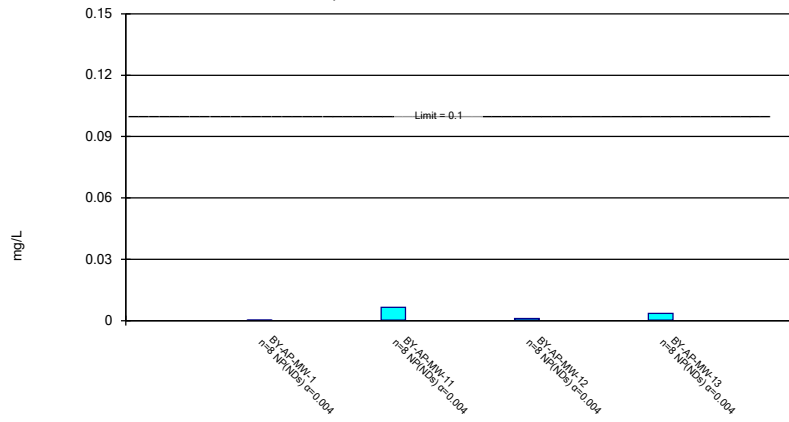
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



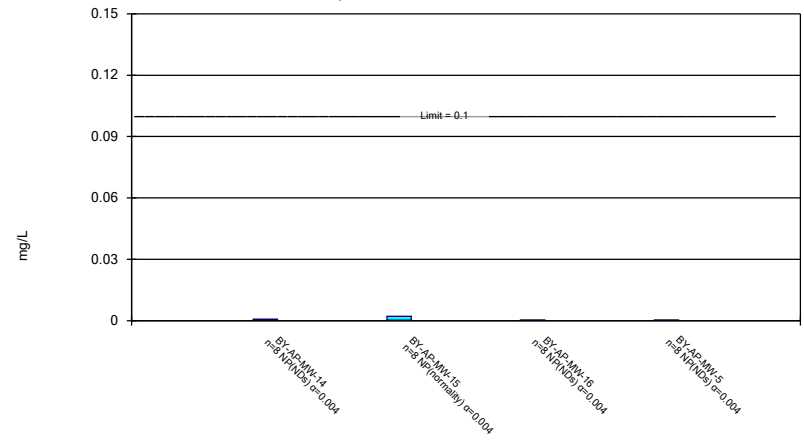
Constituent: Lithium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval Compliance Limit is not exceeded.



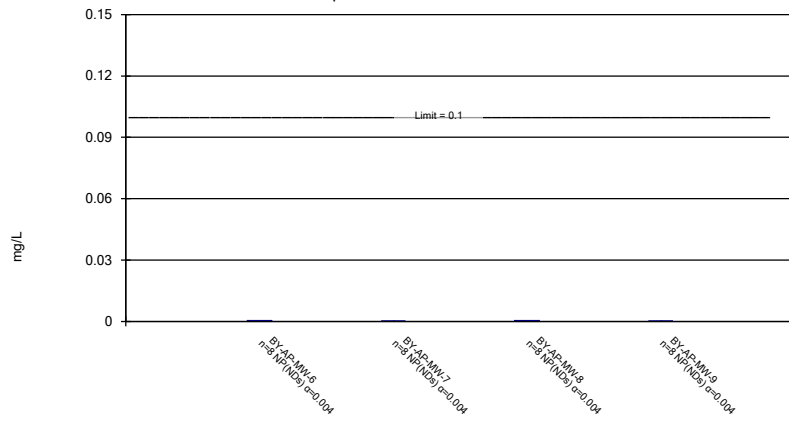
Constituent: Molybdenum Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval Compliance Limit is not exceeded.



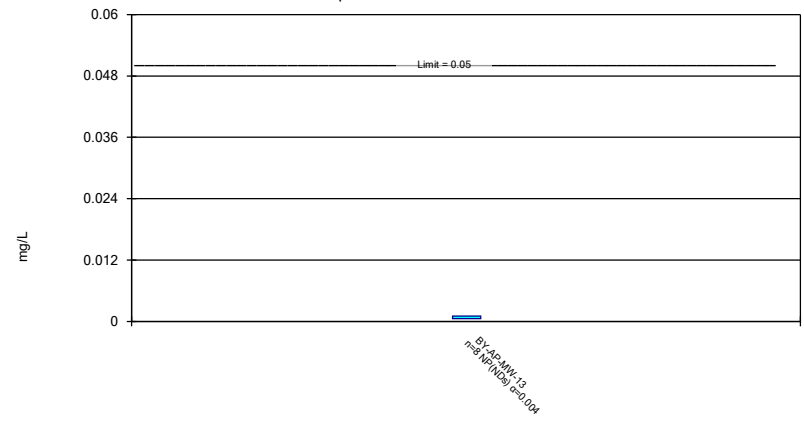
Constituent: Molybdenum Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 7/20/2022 3:35 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
11/28/2018	0.0677		0.014	0.0216
5/29/2019	0.0555		0.0132	0.0215
5/30/2019		0.0671		
7/31/2019		0.0649		
9/30/2019		0.0704	0.0145	
10/1/2019	0.0635			0.0221
3/30/2020	0.0557			
3/31/2020		0.0702	0.0158	0.0246
9/1/2020	0.0811	0.0763	0.0165	0.0246
5/11/2021		0.0762		
5/18/2021	0.0687			0.0237
5/19/2021			0.0166	
10/27/2021		0.0705		
11/1/2021	0.0694			0.0245
11/2/2021			0.0161	
5/23/2022			0.0142	0.0245
5/24/2022	0.0767	0.0775		
Mean	0.06729	0.07164	0.01511	0.02339
Std. Dev.	0.009052	0.004595	0.001292	0.001411
Upper Lim.	0.07688	0.07651	0.01648	0.0246
Lower Lim.	0.05769	0.06677	0.01374	0.0215

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
11/27/2018		0.0145	0.0158	0.0108
11/28/2018	0.0141			
5/29/2019	0.0138	0.014	0.0148	0.0106
10/1/2019	0.0144	0.0152	0.017	0.0138
3/31/2020	0.0154	0.0177		0.012
4/1/2020			0.0183	
9/1/2020	0.0148			
9/2/2020		0.0174	0.0206	0.0137
5/11/2021			0.0184	
5/19/2021	0.014			0.0118
5/25/2021		0.0172		
10/26/2021	0.013		0.0186	
10/27/2021		0.0174		
11/1/2021				0.0151
5/24/2022	0.0128			
5/25/2022		0.0183	0.0176	0.0134
Mean	0.01404	0.01646	0.01764	0.01265
Std. Dev.	0.0008651	0.001635	0.001795	0.001593
Upper Lim.	0.01495	0.0182	0.01954	0.01434
Lower Lim.	0.01312	0.01473	0.01573	0.01096

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-6
5/2/2018			0.0315	
11/27/2018	0.00144 (J)	<0.0002	0.0283	
11/28/2018				<0.0002
5/29/2019	0.00132 (J)	<0.0002	0.0301	<0.0002
10/1/2019	0.0014 (J)	<0.0002	0.0307	<0.0002
3/31/2020	0.00149 (J)	<0.0002	0.0329	<0.0002
8/31/2020	0.00176 (J)			
9/1/2020		<0.0002	0.0372	
9/2/2020				<0.0002
5/17/2021				0.000103 (J)
5/18/2021	0.00159	0.000125 (J)		
11/1/2021	0.00191	0.0002		
11/2/2021			0.0357	0.0001 (J)
5/24/2022	0.00115			
5/25/2022		<0.0002	0.0316	<0.0002
Mean	0.001508	0.0001156	0.03225	0.0001004
Std. Dev.	0.0002426	3.52E-05	0.002938	1.061E-06
Upper Lim.	0.001765	0.0002	0.03536	0.000103
Lower Lim.	0.00125	0.0001	0.02914	0.0001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
11/27/2018		0.0536	
11/28/2018	0.0209		0.0422
5/29/2019	0.0178	0.0482	
5/30/2019			0.0349
9/30/2019	0.0217	0.0514	0.0391
3/30/2020	0.0215	0.0589	
3/31/2020			0.0393
9/2/2020	0.0234	0.0629	0.0432
5/11/2021		0.0659	
5/18/2021	0.0215		0.0435
10/26/2021		0.0668	
10/27/2021	0.0236		0.0468
5/24/2022	0.0197	0.0583	0.0404
Mean	0.02126	0.05825	0.04118
Std. Dev.	0.001886	0.006795	0.003586
Upper Lim.	0.02326	0.06545	0.04498
Lower Lim.	0.01926	0.05105	0.03737

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
11/28/2018	0.271	0.066	0.0796	0.0788
5/29/2019	0.29		0.0653	0.0769
5/30/2019		0.063		
9/30/2019		0.0669	0.0759	
10/1/2019	0.293			0.0795
3/30/2020	0.279			
3/31/2020		0.0727	0.0842	0.0851
9/1/2020	0.33	0.078	0.0923	0.0827
5/11/2021		0.0757		
5/18/2021	0.339			0.0902
5/19/2021			0.112	
10/27/2021		0.0638		
11/1/2021	0.322			0.0823
11/2/2021			0.0894	
5/23/2022			0.0691	0.0802
5/24/2022	0.343	0.0618		
Mean	0.3084	0.06849	0.08348	0.08196
Std. Dev.	0.02834	0.006162	0.01482	0.004195
Upper Lim.	0.3384	0.07502	0.09918	0.08641
Lower Lim.	0.2783	0.06196	0.06777	0.07752

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
11/27/2018		0.0589	0.0557	0.0792
11/28/2018	0.0697			
5/29/2019	0.0704	0.0617	0.0562	0.081
10/1/2019	0.0696	0.0605	0.0628	0.0803
3/31/2020	0.0728	0.0619		0.091
4/1/2020			0.0697	
9/1/2020	0.0722			
9/2/2020		0.0687	0.0736	0.0954
5/11/2021			0.0762	
5/19/2021	0.0817			0.102
5/25/2021		0.0745		
10/26/2021	0.0667		0.0784	
10/27/2021		0.0651		
11/1/2021				0.0988
5/24/2022	0.0723			
5/25/2022		0.0693	0.0846	0.0977
Mean	0.07193	0.06508	0.06965	0.09068
Std. Dev.	0.004416	0.00535	0.01056	0.00925
Upper Lim.	0.07647	0.07075	0.08085	0.1005
Lower Lim.	0.06744	0.0594	0.05845	0.08087

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
5/2/2018				0.154
11/27/2018	0.0249	0.0339	0.0321	0.139
5/29/2019	0.0232	0.037	0.0203	0.146
10/1/2019	0.0241	0.0356	0.0207	0.138
3/31/2020	0.0264	0.0393	0.0193	0.15
8/31/2020	0.0275			
9/1/2020		0.038	0.0131	0.154
5/18/2021	0.0259	0.0406	0.0225	
11/1/2021	0.0247	0.0371	0.0217	
11/2/2021				0.159
5/24/2022	0.0248			
5/25/2022		0.0494	0.0399	0.155
Mean	0.02519	0.03886	0.0237	0.1494
Std. Dev.	0.001359	0.004733	0.008373	0.007708
Upper Lim.	0.02663	0.04373	0.03257	0.1575
Lower Lim.	0.02375	0.03406	0.01483	0.1412

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
11/27/2018			0.143	
11/28/2018	0.0231	0.0654		0.119
5/29/2019	0.0244	0.059	0.138	
5/30/2019				0.112
9/30/2019		0.0648	0.138	0.117
10/1/2019	0.0257			
3/30/2020		0.059	0.141	
3/31/2020	0.0244			0.119
9/2/2020	0.0282	0.0745	0.151	0.124
5/11/2021			0.147	
5/17/2021	0.0305			
5/18/2021		0.07		0.125
10/26/2021			0.136	
10/27/2021		0.0664		0.117
11/2/2021	0.0286			
5/24/2022		0.0717	0.142	0.117
5/25/2022	0.0268			
Mean	0.02646	0.06635	0.142	0.1188
Std. Dev.	0.002518	0.005603	0.005014	0.004166
Upper Lim.	0.02913	0.07229	0.1473	0.1232
Lower Lim.	0.02379	0.06041	0.1367	0.1143

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4
11/27/2018	0.00071 (J)
5/29/2019	<0.00102
10/1/2019	<0.00102
3/31/2020	<0.00102
9/1/2020	<0.00102
5/18/2021	<0.00102
11/1/2021	<0.00102
5/25/2022	0.00065 (J)
Mean	0.000935
Std. Dev.	0.0001582
Upper Lim.	0.00102
Lower Lim.	0.00065

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6
11/28/2018	<0.000203
5/29/2019	<0.000203
10/1/2019	<0.000203
3/31/2020	<0.000203
9/2/2020	<0.000203
5/17/2021	<0.000203
11/2/2021	7E-05 (J)
5/25/2022	0.00031
Mean	0.0001998
Std. Dev.	6.442E-05
Upper Lim.	0.00031
Lower Lim.	7E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
11/28/2018	0.0036 (J)	<0.00102	0.0023 (J)	0.00353 (J)
5/29/2019	0.00223 (J)		0.00211 (J)	0.00333 (J)
5/30/2019		<0.00102		
9/30/2019		<0.00102	0.00228 (J)	
10/1/2019	0.00236 (J)			0.00325 (J)
3/30/2020	0.00415 (J)			
3/31/2020		<0.00102	0.00358 (J)	0.0056 (J)
9/1/2020	0.00242 (J)	<0.00102	0.00259 (J)	0.00332 (J)
5/11/2021		0.000685 (J)		
5/18/2021	0.00294			0.00377
5/19/2021			0.00301	
10/27/2021		0.00072 (J)		
11/1/2021	0.00244			0.00423
11/2/2021			0.00348	
5/23/2022			0.00474	0.00374
5/24/2022	0.00238	0.00052 (J)		
Mean	0.002815	0.0008781	0.003011	0.003846
Std. Dev.	0.000702	0.000204	0.0008914	0.0007782
Upper Lim.	0.00415	0.00102	0.003956	0.0056
Lower Lim.	0.00223	0.00052	0.002066	0.00325

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
11/27/2018		0.00523 (J)	<0.00102	<0.00102
11/28/2018	0.0068 (J)			
5/29/2019	0.00727 (J)	0.00455 (J)	<0.00102	<0.00102
10/1/2019	0.00764 (J)	0.00508 (J)	<0.00102	<0.00102
3/31/2020	0.00955 (J)	0.00463 (J)		<0.00102
4/1/2020			<0.00102	
9/1/2020	0.00888 (J)			
9/2/2020		0.00482 (J)	<0.00102	<0.00102
5/11/2021			0.000581 (J)	
5/19/2021	0.00692			0.00162
5/25/2021		0.00365		
10/26/2021	0.00755		0.00052 (J)	
10/27/2021		0.00401		
11/1/2021				0.0018
5/24/2022	0.00685			
5/25/2022		0.00345	0.00049 (J)	0.00135
Mean	0.007683	0.004428	0.0008364	0.001234
Std. Dev.	0.001012	0.0006562	0.0002546	0.0003189
Upper Lim.	0.008713	0.005123	0.00102	0.0018
Lower Lim.	0.006678	0.003732	0.00049	0.00102

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
5/2/2018				<0.00102
11/27/2018	<0.00102	<0.00102	<0.00102	<0.00102
5/29/2019	<0.00102	<0.00102	<0.00102	<0.00102
10/1/2019	<0.00102	<0.00102	<0.00102	<0.00102
3/31/2020	<0.00102	<0.00102	<0.00102	<0.00102
8/31/2020	<0.00102			
9/1/2020		<0.00102	<0.00102	<0.00102
5/18/2021	0.000394 (J)	0.000919 (J)	0.000544 (J)	
11/1/2021	0.00029 (J)	0.00093 (J)	0.00067 (J)	
11/2/2021				0.00101 (J)
5/24/2022	<0.00102			
5/25/2022		0.00104	0.00026 (J)	0.00103
Mean	0.0008505	0.0009986	0.0008217	0.00102
Std. Dev.	0.0003151	4.636E-05	0.0002957	5.345E-06
Upper Lim.	0.00102	0.00104	0.00102	0.00103
Lower Lim.	0.00029	0.000919	0.00026	0.00101

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
11/27/2018			<0.00102	
11/28/2018	<0.00102	<0.00102		<0.00102
5/29/2019	<0.00102	<0.00102	<0.00102	
5/30/2019				<0.00102
9/30/2019		<0.00102	<0.00102	<0.00102
10/1/2019	<0.00102			
3/30/2020		<0.00102	<0.00102	
3/31/2020	<0.00102			<0.00102
9/2/2020	<0.00102	<0.00102	<0.00102	<0.00102
5/11/2021			0.00156	
5/17/2021	0.000313 (J)			
5/18/2021		0.00709		0.00078 (J)
10/26/2021			0.00165	
10/27/2021		0.00309		0.00087 (J)
11/2/2021	0.00023 (J)			
5/24/2022		0.00058 (J)	0.00128	0.0007 (J)
5/25/2022	0.00029 (J)			
Mean	0.0007416	0.001982	0.001199	0.0009312
Std. Dev.	0.0003849	0.002201	0.0002674	0.0001307
Upper Lim.	0.00102	0.00709	0.00165	0.00102
Lower Lim.	0.00023	0.00058	0.00102	0.0007

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
11/28/2018	<0.005	<0.005	<0.005	0.00274 (J)
5/29/2019	<0.005		<0.005	0.00358 (J)
5/30/2019		<0.005		
9/30/2019		<0.005	<0.005	
10/1/2019	<0.005			0.00303 (J)
3/30/2020	<0.005			
3/31/2020		<0.005	<0.005	0.00364 (J)
9/1/2020	<0.005	<0.005	<0.005	0.0031 (J)
5/11/2021		0.000636		
5/18/2021	0.000996			0.00336
5/19/2021			0.00257	
10/27/2021		0.00065		
11/1/2021	0.00091			0.0037
11/2/2021			0.00118	
5/23/2022			0.00118	0.00428
5/24/2022	0.00091	0.00054		
Mean	0.003477	0.003353	0.003741	0.003429
Std. Dev.	0.002102	0.002273	0.001789	0.0004799
Upper Lim.	0.005	0.005	0.005	0.003937
Lower Lim.	0.00091	0.00054	0.00118	0.00292

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
11/27/2018		<0.005	0.0311	0.0182
11/28/2018	<0.005			
5/29/2019	<0.005	<0.005	0.0343	0.0206
10/1/2019	<0.005	<0.005	0.0336	0.0107
3/31/2020	<0.005	<0.005		0.0199
4/1/2020			0.0344	
9/1/2020	<0.005			
9/2/2020		<0.005	0.0385	0.0192
5/11/2021			0.0349	
5/19/2021	0.00113			0.0182
5/25/2021		0.00124		
10/26/2021	0.00122		0.0347	
10/27/2021		0.00125		
11/1/2021				0.0139
5/24/2022	0.00189			
5/25/2022		0.00125	0.0364	0.0155
Mean	0.003655	0.003592	0.03474	0.01703
Std. Dev.	0.001869	0.001943	0.002131	0.003394
Upper Lim.	0.005	0.005	0.037	0.02062
Lower Lim.	0.00113	0.00124	0.03248	0.01343

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
5/1/2018			0.0126 (O)	
5/2/2018				<0.005
11/27/2018	0.0066	<0.005	0.00363 (J)	<0.005
5/29/2019	0.00745	<0.005	0.00549	<0.005
10/1/2019	0.00696	<0.005	<0.005	<0.005
3/31/2020	0.00716	<0.005	0.0205	<0.005
8/31/2020	0.00751			
9/1/2020		<0.005	0.00657	<0.005
5/18/2021	0.00746	0.000196 (J)	0.018	
11/1/2021	0.00706	0.00016 (J)	0.00478	
11/2/2021				0.00197
5/24/2022	0.00582			
5/25/2022		0.00028	0.00455	0.00184
Mean	0.007003	0.003204	0.008565	0.004226
Std. Dev.	0.0005679	0.002478	0.006681	0.001433
Upper Lim.	0.007575	0.005	0.0205	0.005
Lower Lim.	0.006423	0.00016	0.00363	0.00184

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
11/27/2018			<0.005	
11/28/2018	<0.005	0.0178		<0.005
5/29/2019	<0.005	0.0197	<0.005	
5/30/2019				<0.005
9/30/2019		0.0186	<0.005	<0.005
10/1/2019	<0.005			
3/30/2020		0.0172	<0.005	
3/31/2020	<0.005			<0.005
9/2/2020	<0.005	0.0197	<0.005	<0.005
5/11/2021			0.000778	
5/17/2021	0.000678			
5/18/2021		0.0189		0.000725
10/26/2021			0.00079	
10/27/2021		0.0206		0.0007
11/2/2021	0.0006			
5/24/2022		0.023	0.00067	0.00069
5/25/2022	0.00098			
Mean	0.003407	0.01944	0.003405	0.003389
Std. Dev.	0.002201	0.001807	0.002202	0.002223
Upper Lim.	0.005	0.02135	0.005	0.005
Lower Lim.	0.0006	0.01752	0.00067	0.00069

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/20/2022 3:37 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
5/1/2018	1.6			
5/2/2018		0.405	0.505	1.11
11/28/2018	1.48	0.609	0.232 (U)	0.846
5/29/2019	2.25		0.726	2.06
5/30/2019		0.0949 (U)		
9/30/2019		0.965	0.489 (U)	
10/1/2019	2.84			0.984
3/30/2020	2.31			
3/31/2020		1.14	0.462 (U)	1.26
5/11/2021		1.12 (U)		
5/18/2021	2.99			1.11
5/19/2021			1.15	
10/27/2021		1.2 (U)		
11/1/2021	2.22			1.79
11/2/2021			0.504 (U)	
5/23/2022			0.452 (U)	1.4
5/24/2022	2.12	1.36 (U)		
Mean	2.226	0.8617	0.565	1.32
Std. Dev.	0.5248	0.4437	0.2714	0.4148
Upper Lim.	2.783	1.332	0.8362	1.76
Lower Lim.	1.67	0.3915	0.3081	0.8804

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
5/1/2018			0.651	0.623
5/2/2018	0.752	0.522		
11/27/2018		0.576	0.764	0.744
11/28/2018	0.523			
5/29/2019	1.01	0.437 (U)	0.433	2.51
10/1/2019	1.07	1.11	0.988	0.443 (U)
3/31/2020	0.725	0.941		0.341 (U)
4/1/2020			0.527	
5/11/2021			0.684 (U)	
5/19/2021	1.15			0.321 (U)
5/25/2021		0.978 (U)		
10/26/2021	1.74		1.95	
10/27/2021		0.587 (U)		
11/1/2021				1.28
5/24/2022	0.915 (U)			
5/25/2022		1.25	1.3	0.927 (U)
Mean	0.9856	0.8001	0.9121	0.8986
Std. Dev.	0.3675	0.3058	0.5005	0.7265
Upper Lim.	1.375	1.124	1.443	1.569
Lower Lim.	0.5961	0.476	0.3816	0.285

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
1/24/2018				1.74 (U)
5/1/2018	0.457	0.372 (U)	0.0917 (U)	
5/2/2018				0.58
11/27/2018	0.359 (U)	0.591	0.695	1.43
5/29/2019	1.18	2.31	0.947	2.16
10/1/2019	0.284 (U)	1.52	0.7	2.14
3/31/2020	0.699	0.478 (U)	0.323 (U)	0.754
5/18/2021	0.72 (U)	0.749 (U)	0.734 (U)	
11/1/2021	0.523 (U)	0.688 (U)	0.888 (U)	
11/2/2021				2.06
5/24/2022	0.732 (U)			
5/25/2022		1.72	0.821 (U)	1.71
Mean	0.6193	1.054	0.65	1.572
Std. Dev.	0.2827	0.7047	0.2938	0.6126
Upper Lim.	0.9189	1.8	0.9614	2.221
Lower Lim.	0.3196	0.3065	0.3385	0.9224

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
5/2/2018	0.187 (U)	0.535	0.572	0.983
11/27/2018			0.687	
11/28/2018	0.478 (U)	0.62		0.747
5/29/2019	-0.276 (U)	0.244 (U)	0.627 (U)	
5/30/2019				1.08
9/30/2019		0.388 (U)	0.321 (U)	0.58
10/1/2019	0.742			
3/30/2020		0.744	0.6	
3/31/2020	0.291 (U)			0.82
5/11/2021			0.648 (U)	
5/17/2021	1.84			
5/18/2021		0.597 (U)		0.98 (U)
10/26/2021			1.61	
10/27/2021		1.46 (U)		1.07 (U)
11/2/2021	0.773 (U)			
5/24/2022		1.05 (U)	0.733 (U)	2.11
5/25/2022	1.06 (U)			
Mean	0.6369	0.7048	0.7248	1.046
Std. Dev.	0.6366	0.3876	0.3784	0.4629
Upper Lim.	1.312	1.116	1.054	1.478
Lower Lim.	-0.03787	0.294	0.4141	0.636

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
11/28/2018	<0.125	<0.125	0.05 (J)	0.04 (J)
5/29/2019	0.0858 (J)		0.0759 (J)	0.0677 (J)
5/30/2019		0.0573 (J)		
9/30/2019		<0.125	0.0733 (J)	
10/1/2019	0.0744 (J)			0.0682 (J)
3/30/2020	0.0726 (J)			
3/31/2020		<0.125	0.078 (J)	0.0755 (J)
9/1/2020	0.194	0.0794 (J)	0.0841 (J)	0.0845 (J)
5/11/2021		0.105		
5/18/2021	0.0884 (J)			0.0614 (J)
5/19/2021			0.0994 (J)	
10/27/2021		<0.125		
11/1/2021	0.181			0.0928 (J)
11/2/2021			0.101	
5/23/2022			0.0709 (J)	0.0873 (J)
5/24/2022	0.0801 (J)	<0.125 (D)		
Mean	0.1049	0.06928	0.07908	0.07218
Std. Dev.	0.05176	0.01582	0.01637	0.01692
Upper Lim.	0.194	0.105	0.09643	0.09011
Lower Lim.	0.0625	0.0573	0.06172	0.05424

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
11/27/2018		0.06 (J)	0.18	<0.125
11/28/2018	0.05 (J)			
5/29/2019	0.0679 (J)	0.0781 (J)	0.168	0.0683 (J)
10/1/2019	0.0703 (J)	0.0885 (J)	0.185	0.0774 (J)
3/31/2020	0.0665 (J)	0.0867 (J)		0.0602 (J)
4/1/2020			0.187	
9/1/2020	0.0757 (J)			
9/2/2020		0.0957 (J)	0.18	<0.125
5/11/2021			0.214	
5/19/2021	0.0748 (J)			0.0793 (J)
5/25/2021		0.0957 (J)		
10/26/2021	0.0641 (J)		0.171	
10/27/2021		0.0651 (J)		
11/1/2021				0.0887 (J)
5/24/2022	0.0769 (J)			
5/25/2022		0.0733 (J)	0.214	<0.125
Mean	0.06828	0.08039	0.1874	0.07018
Std. Dev.	0.008709	0.01352	0.01763	0.01041
Upper Lim.	0.07751	0.09472	0.2059	0.08512
Lower Lim.	0.05904	0.06606	0.1691	0.06444

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
5/2/2018	0.05 (J)			
11/27/2018	<0.125		<0.125	
11/28/2018		0.07 (J)		0.04 (J)
5/29/2019	0.0923 (J)	0.0937 (J)	0.0958 (J)	
5/30/2019				0.0763 (J)
9/30/2019		0.0925 (J)	0.0559 (J)	0.0679 (J)
10/1/2019	0.0557 (J)			
3/30/2020		0.0933 (J)	0.0701 (J)	
3/31/2020	0.0735 (J)			0.0655 (J)
9/1/2020	0.0921 (J)			
9/2/2020		0.109	<0.125	0.0804 (J)
5/11/2021			0.094 (J)	
5/18/2021		0.11		0.0709 (J)
10/26/2021			<0.125	
10/27/2021		0.0823 (J)		0.0803 (J)
11/2/2021	0.0964 (J)			
5/24/2022		0.0724 (J)	0.0713 (J)	<0.125
5/25/2022	<0.125			
Mean	0.07313	0.0904	0.07183	0.06798
Std. Dev.	0.01826	0.01493	0.01504	0.01311
Upper Lim.	0.09618	0.1062	0.09399	0.08187
Lower Lim.	0.05716	0.07458	0.06127	0.05408

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13	BY-AP-MW-14
11/27/2018				<0.0002
11/28/2018	<0.0002	<0.0002	<0.0002	
5/29/2019	<0.0002	<0.0002	<0.0002	<0.0002
9/30/2019	<0.0002			
10/1/2019		<0.0002	<0.0002	<0.0002
3/31/2020	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2020	<0.0002	<0.0002	<0.0002	
9/2/2020				<0.0002
5/18/2021		0.000326		
5/19/2021	0.000102 (J)		<0.0002	
5/25/2021				7.64E-05 (J)
10/26/2021			<0.0002	
10/27/2021				9E-05 (J)
11/1/2021		0.00029		
11/2/2021	0.00013 (J)			
5/23/2022	9E-05 (J)	0.00018 (J)		
5/24/2022			0.00015 (J)	
5/25/2022				0.0001 (J)
Mean	0.0001652	0.0002245	0.0001937	0.0001583
Std. Dev.	4.92E-05	5.288E-05	1.768E-05	5.79E-05
Upper Lim.	0.0002	0.000326	0.0002	0.0002
Lower Lim.	9E-05	0.00018	0.00015	7.64E-05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-4	BY-AP-MW-6	BY-AP-MW-9
11/27/2018	<0.0002	<0.0002		
11/28/2018			<0.0002	<0.0002
5/29/2019	<0.0002	<0.0002	0.00185 (J)	
5/30/2019				0.00108 (J)
9/30/2019				<0.0002
10/1/2019	<0.0002	<0.0002	0.00545	
3/31/2020	<0.0002	<0.0002	0.00276 (J)	<0.0002
9/1/2020		<0.0002		
9/2/2020	<0.0002		0.00171 (J)	<0.0002
5/17/2021			0.00162	
5/18/2021		0.00013 (J)		<0.0002
5/19/2021	0.000191 (J)			
10/27/2021				<0.0002
11/1/2021	<0.0002	7E-05 (J)		
11/2/2021			0.00336	
5/24/2022				<0.0002
5/25/2022	<0.0002	0.00018 (J)	0.0112	
Mean	0.0001989	0.0001725	0.003519	0.00031
Std. Dev.	3.182E-06	4.803E-05	0.003464	0.0003111
Upper Lim.	0.0002	0.0002	0.006786	0.00108
Lower Lim.	0.000191	7E-05	0.0006176	0.0002

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-15	BY-AP-MW-7
11/27/2018		0.0169 (J)	
11/28/2018	0.0262		<0.02
5/29/2019	0.0321	0.0254	<0.02
9/30/2019	0.0228		<0.02
10/1/2019		0.0248	
3/30/2020			0.0102 (J)
3/31/2020	0.022		
4/1/2020		0.0174 (J)	
9/1/2020	<0.02		
9/2/2020		<0.02	<0.02
5/11/2021		0.00788 (J)	
5/18/2021			0.0882
5/19/2021	0.00754 (J)		
10/26/2021		0.0117 (J)	
10/27/2021			<0.02
11/2/2021	<0.02		
5/23/2022	0.0269		
5/24/2022			<0.02
5/25/2022		0.0118 (J)	
Mean	0.02219	0.01698	0.0273
Std. Dev.	0.007182	0.006312	0.02485
Upper Lim.	0.02902	0.02368	0.0882
Lower Lim.	0.00914	0.01029	0.0102

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13
11/28/2018	<0.0002	<0.0002	<0.0002	<0.0002
5/29/2019	<0.0002	<0.0002	<0.0002	<0.0002
9/30/2019		<0.0002		
10/1/2019	<0.0002		<0.0002	<0.0002
3/30/2020	<0.0002			
3/31/2020		<0.0002	<0.0002	<0.0002
9/1/2020	<0.0002	<0.0002	<0.0002	<0.0002
5/18/2021	0.000106 (J)		0.000947	
5/19/2021		0.00652		0.000437
10/26/2021				0.00043
11/1/2021	8E-05 (J)		0.00099	
11/2/2021		0.00161		
5/23/2022		0.00141	0.00109	
5/24/2022	<0.0002			0.00356
Mean	0.0001732	0.001317	0.0005034	0.0006784
Std. Dev.	5.002E-05	0.002184	0.0004205	0.001169
Upper Lim.	0.0002	0.00652	0.00109	0.00356
Lower Lim.	8E-05	0.0002	0.0002	0.0002

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-5
5/2/2018				<0.0002
11/27/2018	<0.0002	<0.0002	<0.0002	<0.0002
5/29/2019	<0.0002	<0.0002	<0.0002	<0.0002
10/1/2019	<0.0002	<0.0002	<0.0002	<0.0002
3/31/2020	<0.0002		<0.0002	<0.0002
4/1/2020		<0.0002		
9/1/2020				<0.0002
9/2/2020	<0.0002	0.00209 (J)	<0.0002	
5/11/2021		0.00171		
5/19/2021			0.000136 (J)	
5/25/2021	0.000701			
10/26/2021		0.00206		
10/27/2021	0.00053			
11/1/2021			<0.0002	
11/2/2021				0.00012 (J)
5/25/2022	0.00052	0.0018	<0.0002	0.00011 (J)
Mean	0.0003439	0.001057	0.000192	0.0001787
Std. Dev.	0.0002059	0.000925	2.263E-05	3.944E-05
Upper Lim.	0.000701	0.00209	0.0002	0.0002
Lower Lim.	0.0002	0.0002	0.000136	0.00011

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
11/27/2018			<0.0002	
11/28/2018	<0.0002	<0.0002		<0.0002
5/29/2019	<0.0002	<0.0002	<0.0002	
5/30/2019				<0.0002
9/30/2019		<0.0002	<0.0002	<0.0002
10/1/2019	<0.0002			
3/30/2020		<0.0002	<0.0002	
3/31/2020	<0.0002			<0.0002
9/2/2020	<0.0002	<0.0002	<0.0002	<0.0002
5/11/2021			0.000321	
5/17/2021	0.000117 (J)			
5/18/2021		0.000214		0.00022
10/26/2021			0.00019 (J)	
10/27/2021		0.00018 (J)		0.00021
11/2/2021	0.00011 (J)			
5/24/2022		0.00018 (J)	0.00023	0.00024
5/25/2022	0.00033			
Mean	0.0001946	0.0001967	0.0002176	0.0002087
Std. Dev.	6.725E-05	1.141E-05	4.335E-05	1.458E-05
Upper Lim.	0.00033	0.000214	0.000321	0.00024
Lower Lim.	0.00011	0.00018	0.00019	0.0002

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 7/20/2022 3:37 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

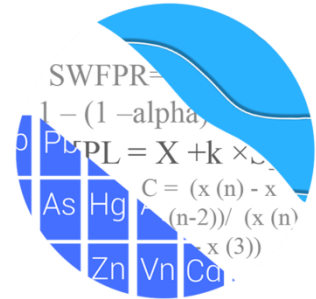
BY-AP-MW-13

11/28/2018	<0.00102
5/29/2019	<0.00102
10/1/2019	<0.00102
3/31/2020	<0.00102
9/1/2020	<0.00102
5/19/2021	<0.00102
10/26/2021	<0.00102
5/24/2022	0.00056 (J)
Mean	0.0009625
Std. Dev.	0.0001626
Upper Lim.	0.00102
Lower Lim.	0.00056

GROUNDWATER STATS CONSULTING

January 3, 2023

Southern Company Services
Attn: Mr. Greg Dyer
3535 Colonnade Parkway
Birmingham, AL 35243



Re: Plant Barry Ash Pond
2nd Semi-Annual Statistical Analysis – October/November 2022

Dear Mr. Dyer,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the statistical analysis of groundwater data for the October/November 2022 2nd Semi-Annual sample event for Alabama Power Company's Plant Barry Ash Pond. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began at site for the CCR program in 2016. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** BY-UP-MW-1, BY-UP-MW-2, BY-UP-MW-3, and BY-UP-MW-4
- **Downgradient wells:** BY-AP-MW-1, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- **Delineation wells:** BY-AP-MW-1V, BY-AP-MW-5V, BY-AP-MW-7V, BY-AP-MW-8V, BY-AP-MW-10V, BY-AP-MW-12V, BY-AP-MW-13V, BY-AP-MW-14V, BY-AP-MW-15V, BY-AP-MW-16V, BY-AP-MW-17H, BY-AP-MW-17V, BY-AP-MW-18H, BY-AP-MW-19H, BY-AP-MW-20H, BY-AP-MW-20V, BY-AP-MW-22H, BY-AP-MW-23H, BY-AP-MW-23V, BY-AP-MW-24H, BY-AP-MW-25H, and BY-AP-MW-25V

Data from delineation wells are included on time series and box plots but did not require formal statistics. Please note that delineation well BY-AP-MW-25V was previously identified as BY-AP-MW-25VM.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was prepared according to the Statistical Analysis Plan approved by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting, primary author of the USEPA Unified Guidance, and Senior Advisor to Groundwater Stats Consulting. The analysis was reviewed Andrew Collins, Project Manager of Groundwater Stats Consulting.

The CCR program consists of the following constituents:

Appendix III (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Appendix IV (Assessment Monitoring) - antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. For all constituents, a substitution of the most recent reporting limit is used for non-detect data. This generally gives the most conservative limit in each case.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Any flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. Summary tables of all flagged values follow this report (Figure C).

In the April 2020 background screening, Appendix III data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on analysis of the spatial variability of groundwater quality data among wells upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. A summary of the background screening is presented in a later section of this letter. Power curves are provided in this report to demonstrate that the selected statistical methods for Appendix III parameters comply with

the USEPA Unified Guidance. The EPA suggests that the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves are based on the following statistical methods and site/data characteristics:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan
- Interwell Prediction Limits with 1-of-2 resample plan
- # Background Samples (Intrawell): 12
- # Background Samples (Interwell): 75
- # Constituents: 7
- # Downgradient wells: 16

Summary of Statistical Methods – Appendix III Parameters

Based on the Statistical Analysis Plan, the following statistical methods are used to evaluate the Appendix III parameters:

- Intrawell prediction limits, combined with a 1-of-2 resample plan for pH and sulfate
- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, and TDS

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the annual false positive rate associated with parametric limits is fixed at 10% as recommended by the EPA Unified Guidance (2009), the false positive rate associated with nonparametric limits is not fixed and depends upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits as appropriate. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are representative of present-day groundwater quality. In the interwell case, prediction limits are updated with upgradient well data following each sampling event after screening for any new outliers. While not required for this report, in some cases, deselecting the earlier portion of data may be necessary prior to construction of limits so that resulting statistical limits are conservative (lower) from a regulatory perspective and capable of rapidly detecting changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Appendix III Background Screening – April 2020

Outlier Analysis

Background data through May 2019 for Appendix III parameters were screened for outliers using Tukey's test for outliers and/or visual screening, and identified outliers were flagged with "o" in the database and shown in a lighter font on the time series graphs and data pages. A list of flagged outliers is included with this report (Appendix C). Flagged values are excluded from background in the calculation of statistical limits in order to better represent background conditions and to produce limits that are conservative from a regulatory perspective. No seasonal patterns were visually apparent on any of the time series plots, and no seasonal adjustments were made.

Trend Tests

The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included in the background used for construction of prediction limits. This step serves to reduce variation

in background and better represent current background conditions. The results of the trend analyses showed several statistically significant increasing and decreasing trends. However, the background time period is short, and all trends noted were relatively low in magnitude when compared to average concentrations; therefore, no adjustments were made to any of the records. Trend test results were included with the April 2020 screening report.

Appendix III – Evaluation of Statistical Approach

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells are not representative of the current background data population; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter.

Based on the results of the screening and use of the ANOVA, intrawell limits were initially recommended for sulfate, and interwell methods were recommended for boron, calcium, chloride, fluoride, pH and TDS. However, as shown on the boxplots, the upgradient levels for pH are very low (acid) and are not representative of downgradient water quality. Therefore, intrawell limits were recommended for pH as well—unless or until a future study confirms that those low levels are representative of unimpacted downgradient conditions.

Appendix III Background Update – Fall 2021

Outlier Analysis

Proposed background data were reviewed to identify any newly suspected outliers, since the last background update described above, at all wells for pH and sulfate through May 2021 and at upgradient wells for boron, calcium, chloride, fluoride, and TDS through November 2021. Visual screening is used to identify potential outliers. When values are identified as outliers, these measurements are flagged with “o” and excluded to reduce variation, better represent background conditions, and provide limits that are conservative from a regulatory perspective. As mentioned above, flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as

well as in a lighter font on the accompanying data pages. During the background update, the highest values for sulfate among existing background data in wells BY-MW-AP-13 and BY-MW-AP-14 were flagged to construct statistical limits that are conservative (i.e., lower) from a regulatory perspective. Additionally, the highest values among compliance data for sulfate in wells BY-MW-AP-MW-5 and MW-AP-16 were flagged in order to incorporate only compliance data that were of similar concentrations to existing background data.

Mann-Whitney

For constituents requiring intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through May 2019 to compliance data through May 2021. When no statistically significant difference in medians between the two groups is found at a 99% confidence level, background data may be updated with newer compliance data. Statistically significant differences (either an increase or decrease in median concentrations) were found the following well/constituent pairs:

Increase:

- Sulfate: BY-AP-MW-1, BY-AP-MW-8, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14

Decrease:

- pH: BY-UP-MW-3, BY-UP-MW-4, BY-AP-MW-6, BY-AP-MW-13, BY-AP-MW-14

Note that the Mann-Whitney could not test sulfate in wells BY-AP-MW-5 and BY-MW-AP-16 because a minimum of 4 compliance samples were not available. However, because the available compliance samples were similar in concentration to background measurements, the respective records were updated with more recent samples.

Typically, when the test concludes that the medians of the two groups are significantly different, particularly in the downgradient wells, the background data are not updated to include the newer data but will be reconsidered in the future. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

Due to more recent data for pH in all wells being fairly similar to background and better representing the groundwater quality in the absence of suspected impacts from practices at the facility, these background data sets were updated. While the Mann-Whitney test did not identify statistically significant differences for sulfate at several wells, these records

were not updated with more recent data due to the observed increase in concentrations in more recent samples compared to background samples. The following records were not updated during the 2021 background update, and a summary follows this report (Background Date Ranges):

- Sulfate: BY-MW-AP-1, BY-MW-AP-8, BY-MW-AP-9, BY-MW-AP-10, BY-MW-AP-11, BY-MW-AP-12, BY-MW-AP-13, and BY-MW-AP-14

Trend Tests

The Sen's Slope/Mann Kendall trend test was used to evaluate the entire record of data through October 2021 from upgradient wells for parameters utilizing interwell prediction limits. When statistically significant increasing trends are identified in upgradient wells, the earlier portion of data may be deselected prior to construction of interwell statistical limits if the trending data would result in statistical limits that are not conservative from a regulatory perspective. Statistically significant trends were identified for the following well/constituent pairs:

Increasing

- Calcium: BY-UP-MW-3 and BY-UP-MW-4
- Fluoride: BY-UP-MW-2
- TDS: BY-UP-MW-1, BY-UP-MW-2, and BY-UP-MW-4

Decreasing

- Chloride: BY-UP-MW-2

Although statistically significant trends were identified for the well/constituent pairs listed above, the magnitudes of the trends are marginal relative to the respective concentrations; therefore, no adjustments were required for these well/constituent pairs at this time. Additionally, concentrations among all upgradient wells remain similar to each other. Therefore, all data from upgradient wells were used to construct interwell prediction limits.

Evaluation of Appendix III Parameters – October/November 2022

Intrawell prediction limits were constructed for pH and sulfate using screened background data through May 2021 at each well. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Intrawell limits constructed from screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The October/November 2022 sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility. Intrawell prediction limits combined with a 1-of-2 verification strategy were constructed for pH and sulfate (Figure D). Background data will be re-evaluated for updating background limits when a minimum of 4 compliance samples are available.

Interwell prediction limits combined with a 1-of-2 verification strategy were constructed for boron, calcium, chloride, fluoride, and TDS using upgradient well data through November 2022 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The October/November 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

For well/constituent pairs containing <15% non-detects, such as sulfate at well BY-AP-MW-4, parametric prediction limits slightly changed compared to those established during the background update. An update was made to the Sanitas™ statistical software in October 2022 that determines the percentage of non-detects within a given background record rather than all records evaluated for a given constituent. Simple substitution of ½ the reporting limit is applied when the percentage of non-detects in background is <15% in accordance with the USEPA EPA Unified Guidance (2009). No significant changes to the prediction limits resulted from this implementation.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research is required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If a resample falls within the statistical limit, the initial exceedance is considered to be a false positive result; therefore, no further action is necessary. Summary tables and complete graphical results for intrawell and interwell prediction limits may be found following this letter (Figures D and E, respectively, pages 16-20). Exceedances for both intrawell and interwell prediction limits were identified for the following well/constituent pairs:

Intrawell:

- pH: BY-UP-MW-3 (upgradient), BY-AP-MW-7, and BY-AP-MW-8
- Sulfate: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8,

BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, and BY-AP-MW-16

Interwell:

- Boron: BY-AP-MW-1, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, and BY-AP-MW-16
- Calcium: BY-AP-MW-1, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Chloride: BY-AP-MW-1, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Fluoride: BY-AP-MW-7, BY-AP-MW-13, and BY-AP-MW-15
- TDS: BY-AP-MW-1, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the trend test results follows this letter (pages 21-23). Statistically significant trends were identified for the following well/constituent pairs:

Increasing:

- Boron: BY-AP-MW-10 and BY-AP-MW-16
- Calcium: BY-UP-MW-3 (upgradient), BY-UP-MW-4 (upgradient), BY-AP-MW-7, BY-AP-MW-10, and BY-AP-MW-12
- Chloride: BY-AP-MW-7, BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Fluoride: BY-UP-MW-1, BY-UP-MW-2, BY-UP-MW-3, and BY-UP-MW-4 (all upgradient)
- Sulfate: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, and BY-AP-MW-14
- TDS: BY-UP-MW-4 (upgradient) and BY-AP-MW-15

Decreasing:

- Boron: BY-AP-MW-8
- Calcium: BY-AP-MW-8
- Chloride: BY-UP-MW-2, BY-UP-MW-3, and BY-UP-MW-4 (all upgradient)
- pH: BY-UP-MW-2, BY-UP-MW-3, and BY-UP-MW-4 (all upgradient)

Evaluation of Appendix IV Parameters – October/November 2022

Data from upgradient wells for Appendix IV parameters were assessed for outliers during previous analyses. A summary of previously flagged outliers follows this report (Figure C).

In accordance with Alabama Department of Environmental Management (ADEM), the Groundwater Protections Standards (GWPS) were updated during the 2021 2nd semi-annual statistical analysis. The GWPS will be updated again during the 2023 2nd semi-annual statistical analysis. The methodology used to create these GWPS is described below.

Interwell Upper Tolerance Limits

First, background limits were determined using tolerance limits constructed from pooled upgradient well data through October 2021 (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in background as the statistical limit, were constructed. A summary of the upper tolerance limits follows this report (page 24).

Groundwater Protection Standards

These background limits were then compared to the Maximum Contaminant Levels (MCLs) for each parameter, and the higher of the two was used as the GWPS (Figure H, page 25) in the confidence interval comparisons described below.

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through November 2022 for each of the Appendix IV parameters (Figure I). These intervals were constructed as either parametric or nonparametric confidence intervals depending on the data distribution and percentage

of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects.

As mentioned above, well/constituent pairs with 100% non-detects did not require statistics and were, therefore, deselected prior to construction confidence intervals. A list of deselected well/constituent pairs also follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter (pages 26-28). Exceedances were identified for the following well/constituent pairs:

- Arsenic: BY-AP-MW-1, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, and BY-AP-MW-16
- Cobalt: BY-AP-MW-15

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Barry Ash Pond. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Easton Rayner
Groundwater Analyst

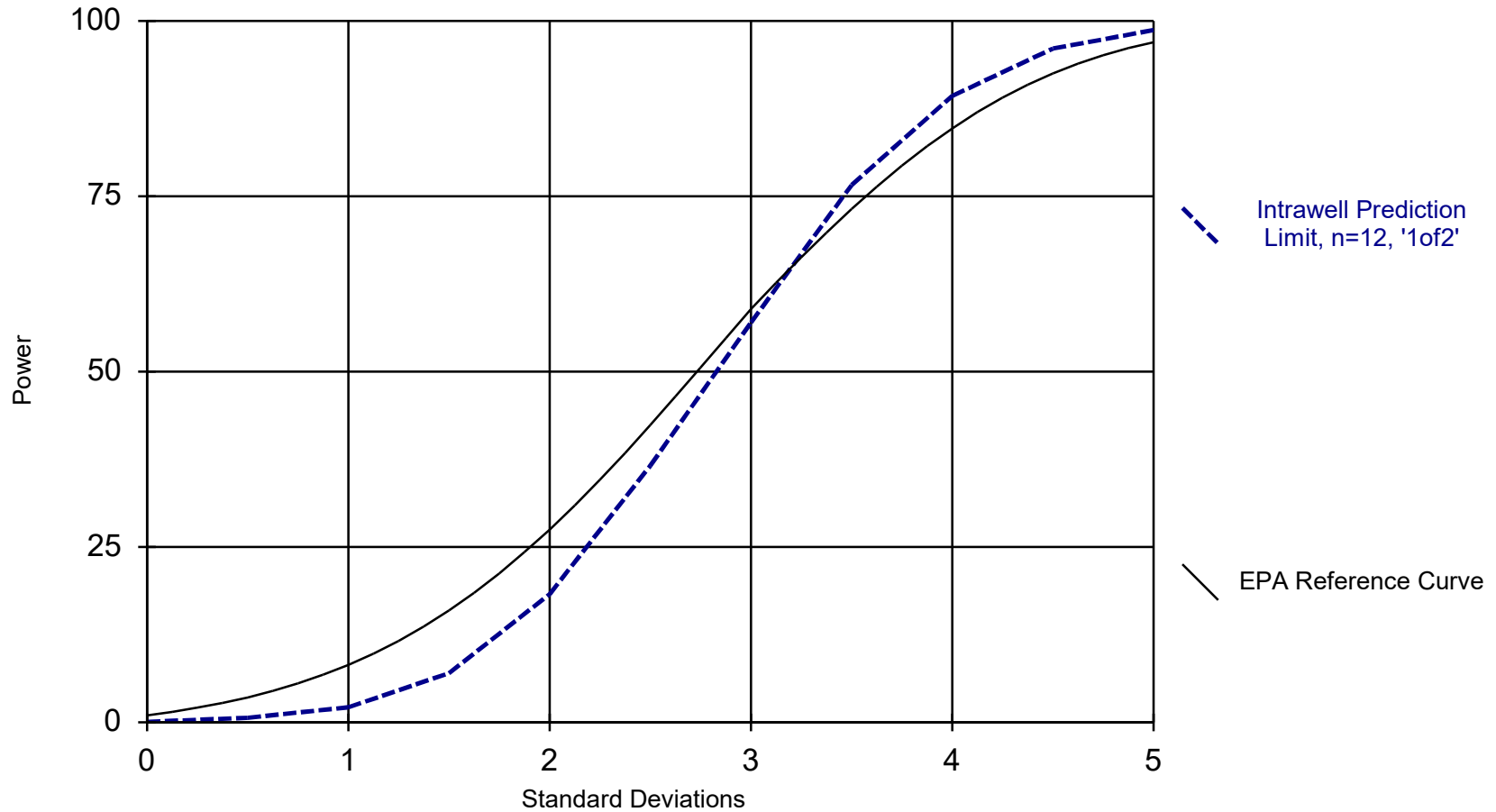


Kristina Rayner
Senior Statistician



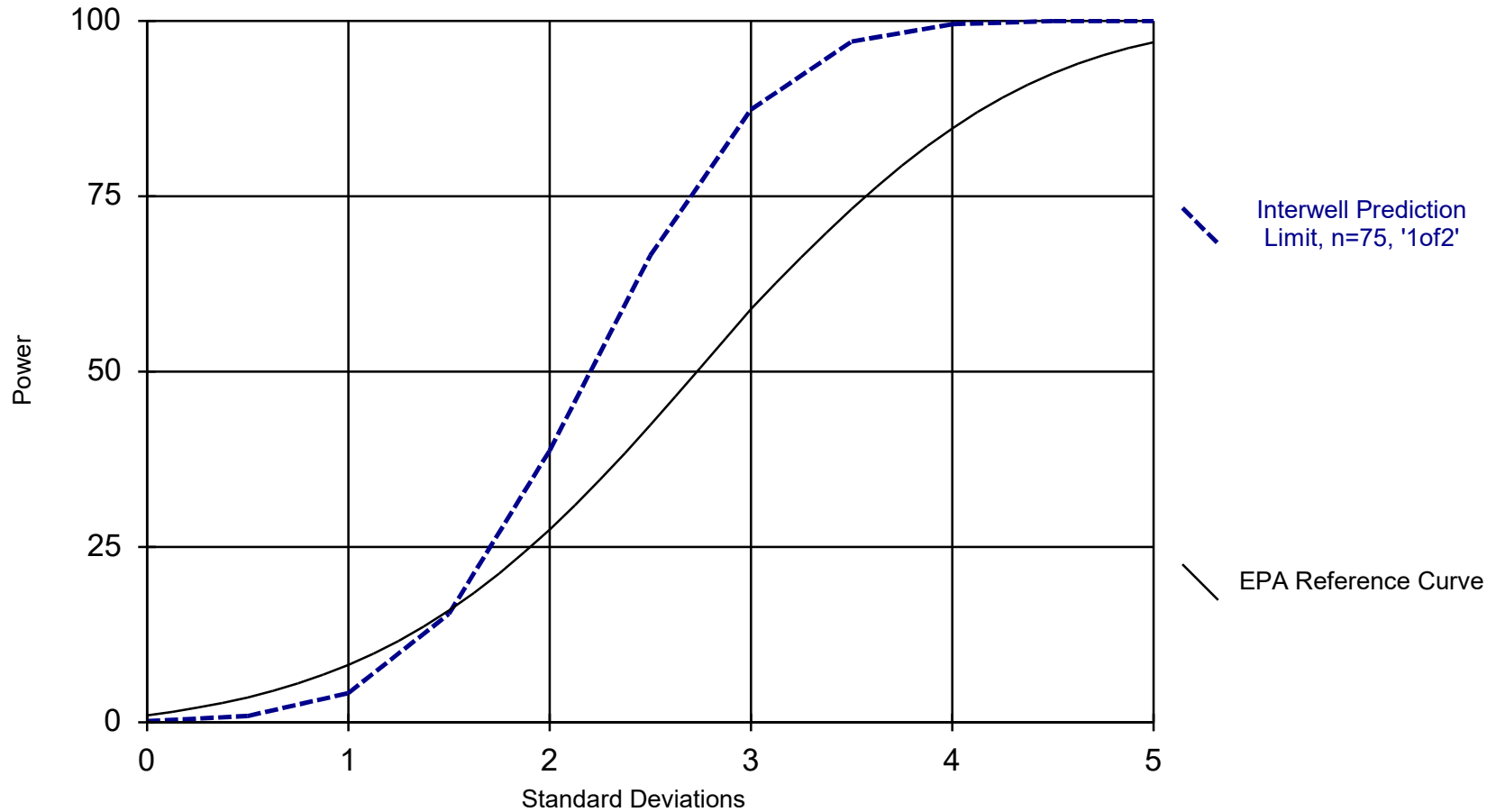
Andrew Collins
Project Manager

Intrawell Power Curve



Kappa = 2.8, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Interwell Power Curve



Kappa = 2.104, based on 16 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Date Ranges

Date: 12/28/2022 4:54 PM

Plant Barry Client: Southern Company Data: Barry Ash Pond

Sulfate as SO4 (mg/L)

- BY-AP-MW-1 background:3/2/2016-5/29/2019
- BY-AP-MW-10 background:3/1/2016-5/30/2019
- BY-AP-MW-11 background:3/1/2016-5/29/2019
- BY-AP-MW-12 background:3/2/2016-5/29/2019
- BY-AP-MW-13 background:3/2/2016-5/29/2019
- BY-AP-MW-13V background:3/2/2016-5/29/2019
- BY-AP-MW-8 background:3/1/2016-5/29/2019
- BY-AP-MW-9 background:3/1/2016-5/30/2019

100% Non-Detects: Appendix IV Downgradient

Analysis Run 12/28/2022 5:19 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

Antimony (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Beryllium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Cadmium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Fluoride, total (mg/L)

BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-6

Lead (mg/L)

BY-AP-MW-10, BY-AP-MW-15, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-5, BY-AP-MW-7, BY-AP-MW-8

Lithium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-8, BY-AP-MW-9

Mercury (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Molybdenum (mg/L)

BY-AP-MW-10, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4

Selenium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Thallium (mg/L)

BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15, BY-AP-MW-16, BY-AP-MW-2, BY-AP-MW-3, BY-AP-MW-4, BY-AP-MW-5, BY-AP-MW-6, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 4:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-7	6.432	6.166	10/31/2022	7.07	Yes	18	6.299	0.05346	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.26	5.89	11/2/2022	6.28	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-3	4.98	4.4	11/1/2022	4.12	Yes	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-1	6.348	n/a	11/2/2022	12.1	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-10	5	n/a	11/2/2022	10.2	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-11	19.37	n/a	11/1/2022	47.7	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-12	7.04	n/a	11/1/2022	15.3	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-13	9.841	n/a	11/1/2022	86.9	Yes	12	3.818	2.151	41.67	Kaplan-Meier	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-14	61.6	n/a	11/1/2022	86.1	Yes	16	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-16	6.72	n/a	11/1/2022	7.46	Yes	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-5	11	n/a	10/31/2022	15.2	Yes	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-7	5	n/a	10/31/2022	33.8	Yes	16	n/a	n/a	37.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-8	6.01	n/a	11/2/2022	7.58	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-9	5.91	n/a	10/31/2022	11.4	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2

Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-1	5.91	5.47	11/2/2022	5.56	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-10	6.463	6.143	11/2/2022	6.39	No	19	6.303	0.06515	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-11	6.34	5.85	11/1/2022	6.28	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-12	6.25	5.58	11/1/2022	6.21	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-13	6.14	5.79	11/1/2022	6.09	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-14	6.14	5.76	11/1/2022	5.93	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-15	6.76	6.2	11/1/2022	6.64	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-16	5.87	5.23	11/1/2022	5.78	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-2	6.2	5.161	11/2/2022	5.68	No	19	1094	156.3	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-3	5.22	4.24	11/1/2022	5.01	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-4	5.355	3.955	10/31/2022	4.65	No	19	4.655	0.2846	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-5	6.03	5.47	10/31/2022	5.99	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-6	5.694	4.846	10/31/2022	4.9	No	19	801.5	101.6	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-7	6.432	6.166	10/31/2022	7.07	Yes	18	6.299	0.05346	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.26	5.89	11/2/2022	6.28	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-9	6.32	5.97	10/31/2022	6.26	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-1	4.882	4.49	11/1/2022	4.6	No	18	4.686	0.0786	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-2	5.032	4.318	11/1/2022	4.42	No	18	4.675	0.1431	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-3	4.98	4.4	11/1/2022	4.12	Yes	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-4	5.082	4.517	11/1/2022	4.74	No	18	4.799	0.1134	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-1	6.348	n/a	11/2/2022	12.1	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-10	5	n/a	11/2/2022	10.2	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-11	19.37	n/a	11/1/2022	47.7	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-12	7.04	n/a	11/1/2022	15.3	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-13	9.841	n/a	11/1/2022	86.9	Yes	12	3.818	2.151	41.67	Kaplan-Meier	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-14	61.6	n/a	11/1/2022	86.1	Yes	16	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-15	7.61	n/a	11/1/2022	4.24	No	17	n/a	n/a	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-16	6.72	n/a	11/1/2022	7.46	Yes	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-2	3.3	n/a	11/2/2022	1.17J	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-3	5	n/a	11/1/2022	1.66J	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-4	5.286	n/a	10/31/2022	1.02J	No	17	2.731	1.012	5.882	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-5	11	n/a	10/31/2022	15.2	Yes	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-6	3.037	n/a	10/31/2022	1.22J	No	17	0.01145	0.4356	23.53	Kaplan-Meier	ln(x)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-7	5	n/a	10/31/2022	33.8	Yes	16	n/a	n/a	37.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-8	6.01	n/a	11/2/2022	7.58	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-9	5.91	n/a	10/31/2022	11.4	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-1	31.7	n/a	11/1/2022	11.3	No	16	3.458	0.85	0	None	sqrt(x)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-2	9.774	n/a	11/1/2022	7.11	No	15	6.454	1.269	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-3	9.087	n/a	11/1/2022	6.83	No	16	7.496	0.6224	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-4	10.8	n/a	11/1/2022	4.59	No	16	n/a	n/a	0	n/a	n/a	0.006456	NP Intra (normality) 1 of 2

Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:02 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.188	11/2/2022	1.92	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-10	0.188	11/2/2022	2.02	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-16	0.188	11/1/2022	2.24	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-7	0.188	10/31/2022	0.28	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-8	0.188	11/2/2022	1.59	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-9	0.188	10/31/2022	2.3	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	BY-AP-MW-1	2.142	11/2/2022	38.9	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-10	2.142	11/2/2022	59.5	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-11	2.142	11/1/2022	26.4	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-12	2.142	11/1/2022	22.5	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-13	2.142	11/1/2022	25.2	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-14	2.142	11/1/2022	10.9	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-15	2.142	11/1/2022	6.57	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-16	2.142	11/1/2022	11.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-4	2.142	10/31/2022	3.38	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-5	2.142	10/31/2022	10.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-7	2.142	10/31/2022	2.36	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-8	2.142	11/2/2022	31	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-9	2.142	10/31/2022	38.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-1	9.9	11/2/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-10	9.9	11/2/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-11	9.9	11/1/2022	22.7	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-12	9.9	11/1/2022	24.9	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-13	9.9	11/1/2022	40.2	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-14	9.9	11/1/2022	53.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-15	9.9	11/1/2022	99.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-16	9.9	11/1/2022	23.5	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-4	9.9	10/31/2022	32.8	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-5	9.9	10/31/2022	17.5	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-7	9.9	10/31/2022	95.7	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-8	9.9	11/2/2022	26.6	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-9	9.9	10/31/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-13	0.125	11/1/2022	0.13	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-15	0.125	11/1/2022	0.177	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-7	0.125	10/31/2022	0.381	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	11/2/2022	404	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	11/2/2022	344	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	11/1/2022	419	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	11/1/2022	363	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	11/1/2022	313	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	11/1/2022	347	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	11/1/2022	278	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	11/1/2022	330	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	10/31/2022	71.3	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	10/31/2022	194	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	10/31/2022	291	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	11/2/2022	293	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	10/31/2022	329	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:02 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.188	11/2/2022	1.92	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-10	0.188	11/2/2022	2.02	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-11	0.188	11/1/2022	0.0727J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-12	0.188	11/1/2022	0.0777J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-13	0.188	11/1/2022	0.0445J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-14	0.188	11/1/2022	0.0519J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-15	0.188	11/1/2022	0.0712J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-16	0.188	11/1/2022	2.24	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-2	0.188	11/2/2022	0.1015ND	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-3	0.188	11/1/2022	0.1015ND	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-4	0.188	10/31/2022	0.1015ND	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-5	0.188	10/31/2022	0.0515J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-6	0.188	10/31/2022	0.1015ND	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-7	0.188	10/31/2022	0.28	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-8	0.188	11/2/2022	1.59	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-9	0.188	10/31/2022	2.3	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	BY-AP-MW-1	2.142	11/2/2022	38.9	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-10	2.142	11/2/2022	59.5	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-11	2.142	11/1/2022	26.4	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-12	2.142	11/1/2022	22.5	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-13	2.142	11/1/2022	25.2	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-14	2.142	11/1/2022	10.9	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-15	2.142	11/1/2022	6.57	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-16	2.142	11/1/2022	11.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-2	2.142	11/2/2022	2.03	No	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-3	2.142	11/1/2022	0.926	No	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-4	2.142	10/31/2022	3.38	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-5	2.142	10/31/2022	10.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-6	2.142	10/31/2022	1.63	No	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-7	2.142	10/31/2022	2.36	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-8	2.142	11/2/2022	31	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-9	2.142	10/31/2022	38.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-1	9.9	11/2/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-10	9.9	11/2/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-11	9.9	11/1/2022	22.7	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-12	9.9	11/1/2022	24.9	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-13	9.9	11/1/2022	40.2	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-14	9.9	11/1/2022	53.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-15	9.9	11/1/2022	99.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-16	9.9	11/1/2022	23.5	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-2	9.9	11/2/2022	8.49	No	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-3	9.9	11/1/2022	8.88	No	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-4	9.9	10/31/2022	32.8	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-5	9.9	10/31/2022	17.5	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-6	9.9	10/31/2022	7.48	No	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-7	9.9	10/31/2022	95.7	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-8	9.9	11/2/2022	26.6	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-9	9.9	10/31/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-1	0.125	11/2/2022	0.0665J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-10	0.125	11/2/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-11	0.125	11/1/2022	0.0612J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-12	0.125	11/1/2022	0.0695J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-13	0.125	11/1/2022	0.13	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-14	0.125	11/1/2022	0.0685J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-15	0.125	11/1/2022	0.177	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-16	0.125	11/1/2022	0.112J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-2	0.125	11/2/2022	0.0711J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-3	0.125	11/1/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-4	0.125	10/31/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-5	0.125	10/31/2022	0.0614J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-6	0.125	10/31/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-7	0.125	10/31/2022	0.381	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-8	0.125	11/2/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-9	0.125	10/31/2022	0.0788J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	11/2/2022	404	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	11/2/2022	344	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	11/1/2022	419	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	11/1/2022	363	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:02 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	BY-AP-MW-13	58	11/1/2022	313	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	11/1/2022	347	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	11/1/2022	278	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	11/1/2022	330	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-2	58	11/2/2022	41.3	No	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-3	58	11/1/2022	40	No	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	10/31/2022	71.3	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	10/31/2022	194	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-6	58	10/31/2022	46	No	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	10/31/2022	291	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	11/2/2022	293	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	10/31/2022	329	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-10	0.1168	118	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-16	0.07268	102	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-8	-0.09591	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-10	2.259	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-12	0.3866	102	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-7	0.4296	115	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-8	-0.4773	-107	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-3 (bg)	0.06981	96	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-4 (bg)	0.119	115	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-10	1.516	146	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-12	0.6274	114	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-14	1.483	102	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-15	9.86	170	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-16	0.926	134	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-7	0.5421	93	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-2 (bg)	-0.3719	-116	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-3 (bg)	-0.05707	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-4 (bg)	-0.05635	-85	-74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-1 (bg)	0.01192	90	81	Yes	20	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-2 (bg)	0.0155	95	81	Yes	20	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-3 (bg)	0.008119	99	81	Yes	20	65	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-4 (bg)	0.007668	99	81	Yes	20	65	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-2 (bg)	-0.06496	-139	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-3 (bg)	-0.08244	-131	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-4 (bg)	-0.04665	-103	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-1	1.895	117	81	Yes	20	30	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-11	6.899	129	81	Yes	20	30	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-12	1.996	85	74	Yes	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-13	4.041	85	74	Yes	19	26.32	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-14	8.964	93	74	Yes	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-5	0.2582	71	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-7	0.8322	80	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-8	1.397	113	81	Yes	20	50	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	15.47	142	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-4 (bg)	2.028	94	74	Yes	19	21.05	n/a	n/a	0.01	NP

Trend Tests Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.04908	51	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-10	0.1168	118	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-16	0.07268	102	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-7	0	0	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-8	-0.09591	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-9	0.01378	20	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-1 (bg)	-0.00002481	-33	-74	No	19	42.11	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-2 (bg)	0	29	68	No	18	88.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-3 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-4 (bg)	0	27	74	No	19	89.47	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-1	0.4254	18	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-10	2.259	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-11	-0.2594	-32	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-12	0.3866	102	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-13	0.3352	55	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-14	-0.06003	-12	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-15	0.07367	33	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-16	0	-1	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-4	-0.02274	-30	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-5	-0.03352	-14	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-7	0.4296	115	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-8	-0.4773	-107	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-9	0	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-1 (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-2 (bg)	0.04873	50	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-3 (bg)	0.06981	96	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-4 (bg)	0.119	115	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-1	0.605	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-10	1.516	146	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-11	0.3194	34	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-12	0.6274	114	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-13	-0.1529	-12	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-14	1.483	102	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-15	9.86	170	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-16	0.926	134	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-4	-0.09927	-7	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-5	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-7	0.5421	93	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-8	0.2295	33	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-9	-0.8711	-60	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-1 (bg)	-0.1727	-47	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-2 (bg)	-0.3719	-116	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-3 (bg)	-0.05707	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-4 (bg)	-0.05635	-85	-74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-AP-MW-13	0.003038	80	81	No	20	5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-AP-MW-15	0	-11	-81	No	20	5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-AP-MW-7	0.004949	71	81	No	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-1 (bg)	0.01192	90	81	Yes	20	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-2 (bg)	0.0155	95	81	Yes	20	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-3 (bg)	0.008119	99	81	Yes	20	65	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-4 (bg)	0.007668	99	81	Yes	20	65	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-7	0.008333	42	87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-8	-0.006483	-35	-92	No	22	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-1 (bg)	-0.008464	-28	-87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-2 (bg)	-0.06496	-139	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-3 (bg)	-0.08244	-131	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-4 (bg)	-0.04665	-103	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-1	1.895	117	81	Yes	20	30	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-10	0.9379	78	81	No	20	45	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-11	6.899	129	81	Yes	20	30	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-12	1.996	85	74	Yes	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-13	4.041	85	74	Yes	19	26.32	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-14	8.964	93	74	Yes	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-16	0	31	68	No	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-5	0.2582	71	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-7	0.8322	80	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-8	1.397	113	81	Yes	20	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-9	0.3271	74	81	No	20	45	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate as SO4 (mg/L)	BY-UP-MW-1 (bg)	1.189	47	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-2 (bg)	0.02841	4	68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-3 (bg)	-0.09149	-41	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-4 (bg)	-0.04825	-24	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-1	-1.283	-16	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	5.606	79	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-11	6.77	71	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-12	-0.1763	-1	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-13	-4.349	-55	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-14	2.87	50	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	15.47	142	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-16	5.134	66	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-4	1.651	44	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-5	-3.829	-49	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-7	2.46	49	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-8	-1.191	-20	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-9	-3.957	-58	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-1 (bg)	2.576	69	74	No	19	5.263	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-2 (bg)	1.577	62	74	No	19	10.53	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-3 (bg)	0.9846	45	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-4 (bg)	2.028	94	74	Yes	19	21.05	n/a	n/a	0.01	NP

Upper Tolerance Limits - Summary Table

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 1/19/2022, 3:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	92.65	n/a	n/a	0.03056	NP Inter
Arsenic (mg/L)	n/a	0.0017	n/a	n/a	n/a	68	n/a	n/a	88.24	n/a	n/a	0.03056	NP Inter
Barium (mg/L)	n/a	0.183	n/a	n/a	n/a	68	n/a	n/a	0	n/a	n/a	0.03056	NP Inter
Beryllium (mg/L)	n/a	0.00102	n/a	n/a	n/a	66	n/a	n/a	93.94	n/a	n/a	0.03387	NP Inter
Cadmium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	68	n/a	n/a	83.82	n/a	n/a	0.03056	NP Inter
Cobalt (mg/L)	n/a	0.0157	n/a	n/a	n/a	67	n/a	n/a	58.21	n/a	n/a	0.03217	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	3	n/a	n/a	n/a	60	n/a	n/a	0	n/a	n/a	0.04607	NP Inter
Fluoride, total (mg/L)	n/a	0.1	n/a	n/a	n/a	72	n/a	n/a	52.78	n/a	n/a	0.02489	NP Inter
Lead (mg/L)	n/a	0.00126	n/a	n/a	n/a	68	n/a	n/a	89.71	n/a	n/a	0.03056	NP Inter
Lithium (mg/L)	n/a	0.02	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Molybdenum (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Selenium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Thallium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter

BARRY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.0017	0.01
Barium	mg/L	0.183	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0157	0.0157
Combined Radium-226/228	pCi/L	3	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.00126	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0002	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.0002	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

Confidence Interval Summary Table - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07695	0.05775	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07705	0.068	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01651	0.01392	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.0246	0.0215	0.01	Yes	8	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-13	0.0208	0.0128	0.01	Yes	8	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01813	0.01552	0.01	Yes	8	0	None	x^5	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01961	0.01614	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01522	0.0114	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-5	0.03528	0.02865	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-7	0.02356	0.01641	0.01	Yes	8	0	None	x^3	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06625	0.04722	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04651	0.03104	0.01	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-15	0.03696	0.03367	0.0157	Yes	8	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07695	0.05775	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07705	0.068	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01651	0.01392	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.0246	0.0215	0.01	Yes	8	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-13	0.0208	0.0128	0.01	Yes	8	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01813	0.01552	0.01	Yes	8	0	None	x^5	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01961	0.01614	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01522	0.0114	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-2	0.001772	0.001261	0.01	No	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-3	0.0002	0.000102	0.01	No	8	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-4	0.0002	0.000099	0.01	No	8	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-5	0.03528	0.02865	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-6	0.000203	0.0001	0.01	No	8	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-7	0.02356	0.01641	0.01	Yes	8	0	None	x^3	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06625	0.04722	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04651	0.03104	0.01	Yes	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-1	0.3379	0.2808	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-10	0.07493	0.06097	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-11	0.09905	0.0675	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-12	0.08641	0.07756	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-13	0.07811	0.06789	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-14	0.07131	0.06114	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-15	0.08153	0.06247	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-16	0.1006	0.08358	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-2	0.02699	0.02219	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-3	0.04429	0.03218	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-4	0.118	0.0131	2	No	8	0	None	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-5	0.1599	0.1264	2	No	8	0	None	x^2	0.01	Param.
Barium (mg/L)	BY-AP-MW-6	0.02912	0.0246	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-7	0.07358	0.05045	2	No	8	0	None	x^3	0.01	Param.
Barium (mg/L)	BY-AP-MW-8	0.1487	0.1368	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-9	0.123	0.1125	2	No	8	0	None	No	0.01	Param.
Beryllium (mg/L)	BY-AP-MW-4	0.00102	0.000451	0.004	No	8	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-4	0.0002	0.000102	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-6	0.00031	0.000068	0.005	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-1	0.00415	0.00223	0.1	No	8	0	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-10	0.01	0.00052	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-11	0.004013	0.002224	0.1	No	8	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-12	0.0056	0.00325	0.1	No	8	0	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-13	0.008802	0.006793	0.1	No	8	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-14	0.004911	0.003429	0.1	No	8	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-15	0.01	0.000361	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-16	0.01	0.00122	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-2	0.00102	0.000206	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-3	0.01	0.000919	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-4	0.01	0.00026	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-5	0.01	0.00096	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-6	0.01	0.00023	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-7	0.01	0.000263	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-8	0.01	0.001	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-9	0.01	0.000692	0.1	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-1	0.005	0.00091	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-10	0.005	0.00054	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-11	0.005	0.00105	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-12	0.004054	0.003134	0.0157	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-13	0.005	0.00113	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-14	0.005	0.0012	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-15	0.03696	0.03367	0.0157	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-16	0.0206	0.01093	0.0157	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-2	0.007566	0.006078	0.0157	No	8	0	None	x^5	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-3	0.005	0.000152	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-4	0.01393	0.002798	0.0157	No	8	12.5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-5	0.005	0.0015	0.0157	No	8	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-6	0.005	0.000588	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-7	0.02187	0.01467	0.0157	No	8	0	None	x^3	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-8	0.005	0.00059	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-9	0.005	0.00069	0.0157	No	8	50	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-1	2.776	1.766	5	No	8	0	None	No	0.01	Param.

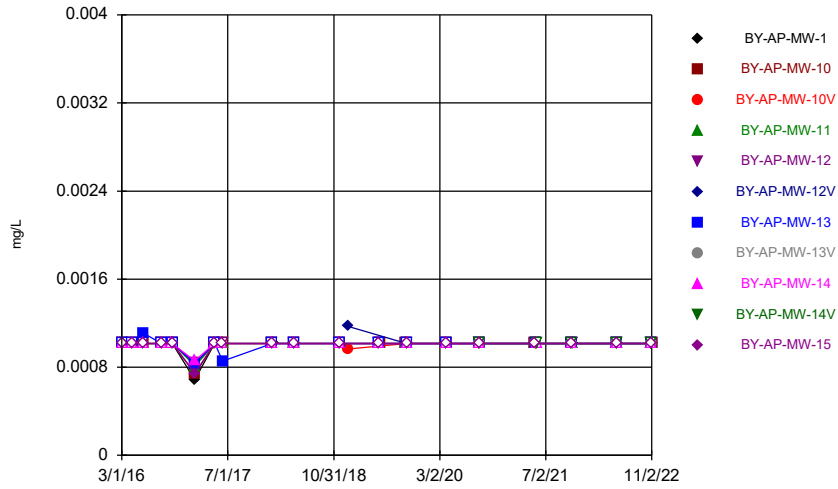
Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-10	1.35	0.4939	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-11	0.9643	0.297	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-12	1.765	0.7655	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-13	1.375	0.5503	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-14	1.124	0.4775	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-15	1.498	0.4505	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-16	1.652	0.3191	5	No	8	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-2	0.9172	0.2986	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-3	1.76	0.4302	5	No	8	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-4	0.9378	0.5738	5	No	8	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-5	2.159	0.7368	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-6	1.381	0.07705	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-7	1.166	0.343	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-8	1.046	0.4039	5	No	8	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-9	1.665	0.5917	5	No	8	0	None	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-1	0.194	0.0665	4	No	8	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	BY-AP-MW-10	0.125	0.0573	4	No	8	62.5	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	BY-AP-MW-11	0.09511	0.06584	4	No	8	0	None	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-12	0.08766	0.06406	4	No	8	0	None	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-13	0.13	0.0641	4	No	8	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	BY-AP-MW-14	0.09409	0.06881	4	No	8	0	None	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-15	0.2057	0.1685	4	No	8	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-16	0.09845	0.06351	4	No	8	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-2	0.125	0.0711	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	BY-AP-MW-5	0.09551	0.06162	4	No	8	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-7	0.381	0.0724	4	No	8	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	BY-AP-MW-8	0.09361	0.06123	4	No	8	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-9	0.08031	0.06534	4	No	8	12.5	None	No	0.01	Param.
Lead (mg/L)	BY-AP-MW-1	0.0002	0.000092	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-11	0.005	0.000078	0.015	No	8	50	None	No	0.004	NP (normality)
Lead (mg/L)	BY-AP-MW-12	0.000326	0.00018	0.015	No	8	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-13	0.0002	0.00015	0.015	No	8	75	None	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-14	0.005	0.0000764	0.015	No	8	50	None	No	0.004	NP (normality)
Lead (mg/L)	BY-AP-MW-16	0.000203	0.000191	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-4	0.005	0.00007	0.015	No	8	50	None	No	0.004	NP (normality)
Lead (mg/L)	BY-AP-MW-6	0.006031	0.001342	0.015	No	8	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BY-AP-MW-9	0.00108	0.000203	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	BY-AP-MW-11	0.02796	0.01086	0.04	No	8	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-15	0.02212	0.008726	0.04	No	8	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-7	0.0882	0.0102	0.04	No	8	75	Kaplan-Meier	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-1	0.000203	0.00008	0.1	No	8	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-11	0.01	0.000972	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-12	0.01	0.000942	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-13	0.01	0.00043	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-14	0.01	0.00052	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-15	0.01	0.00171	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-16	0.000203	0.000136	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-5	0.01	0.00011	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-6	0.01	0.00011	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-7	0.01	0.00018	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-8	0.01	0.00019	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-9	0.01	0.000157	0.1	No	8	50	None	No	0.004	NP (normality)
Selenium (mg/L)	BY-AP-MW-13	0.00102	0.00056	0.05	No	8	75	None	No	0.004	NP (NDs)

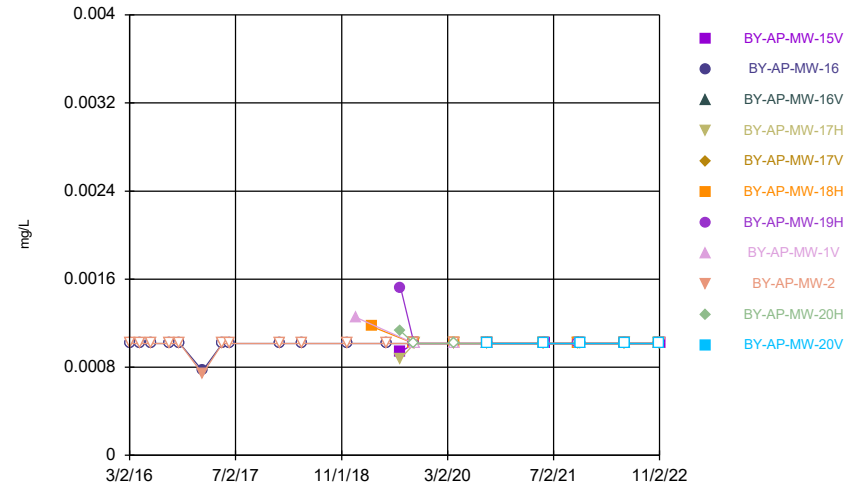
FIGURE A.

Time Series



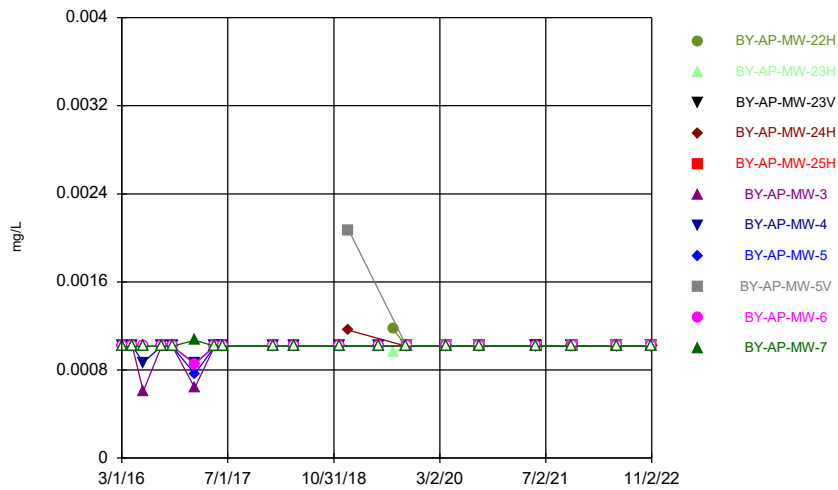
Constituent: Antimony Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



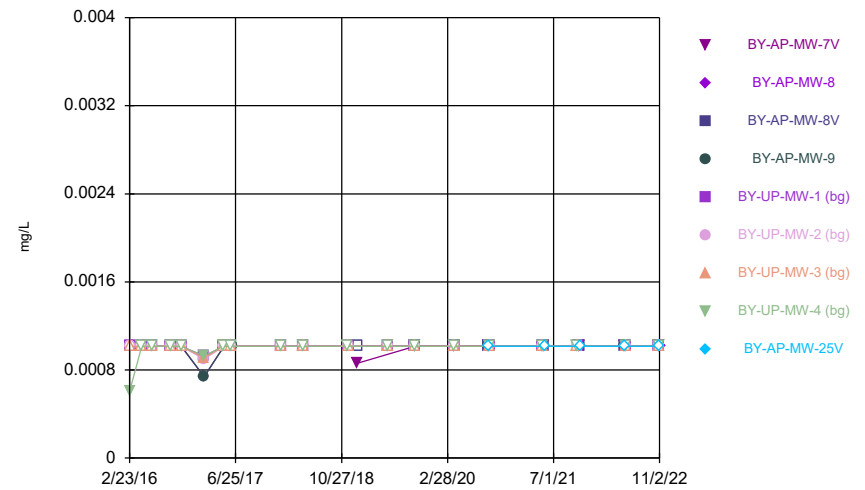
Constituent: Antimony Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



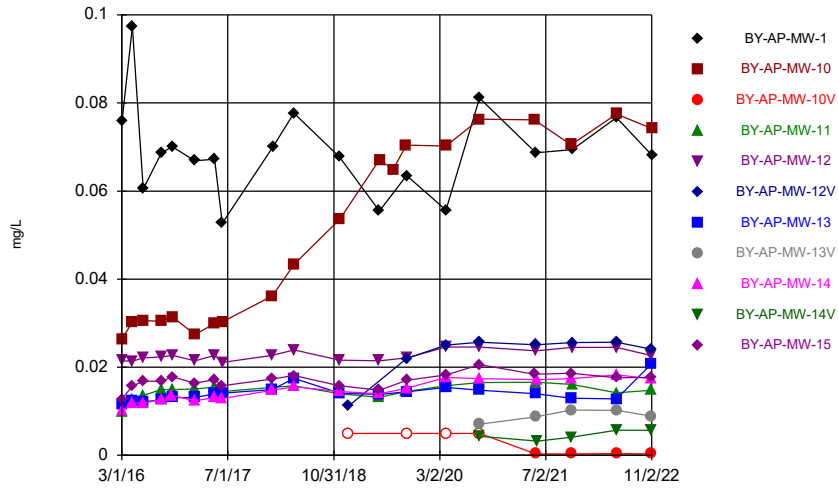
Constituent: Antimony Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



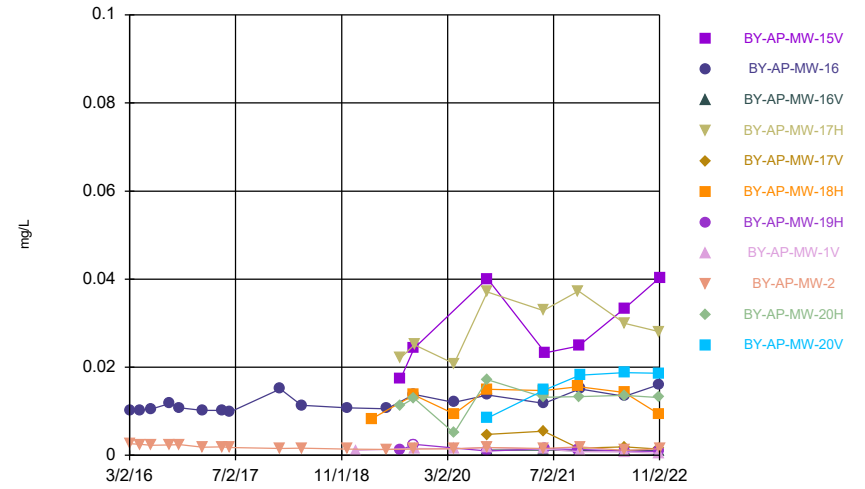
Constituent: Antimony Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



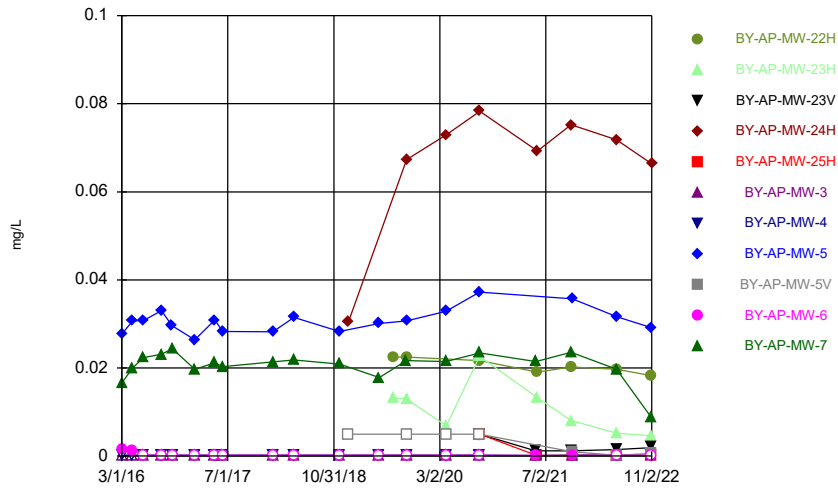
Constituent: Arsenic Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



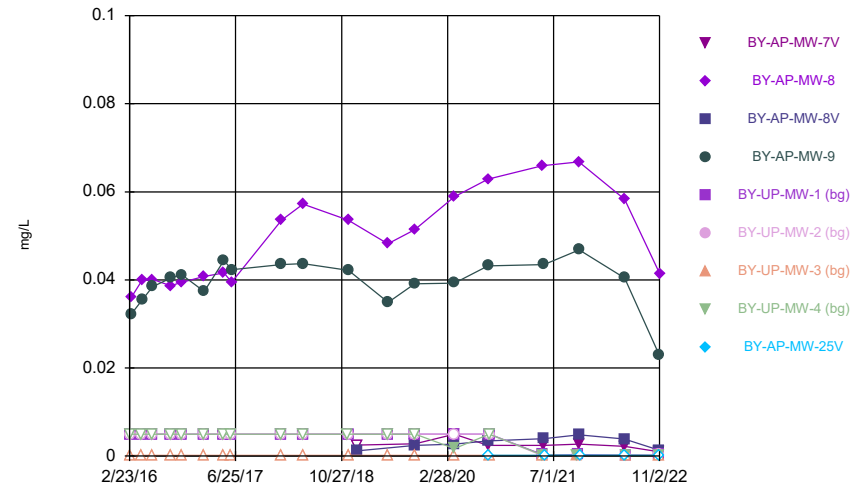
Constituent: Arsenic Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



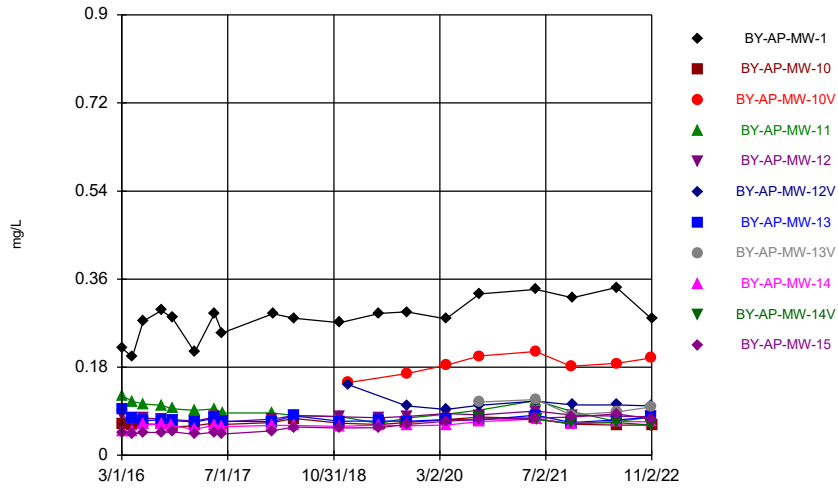
Constituent: Arsenic Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



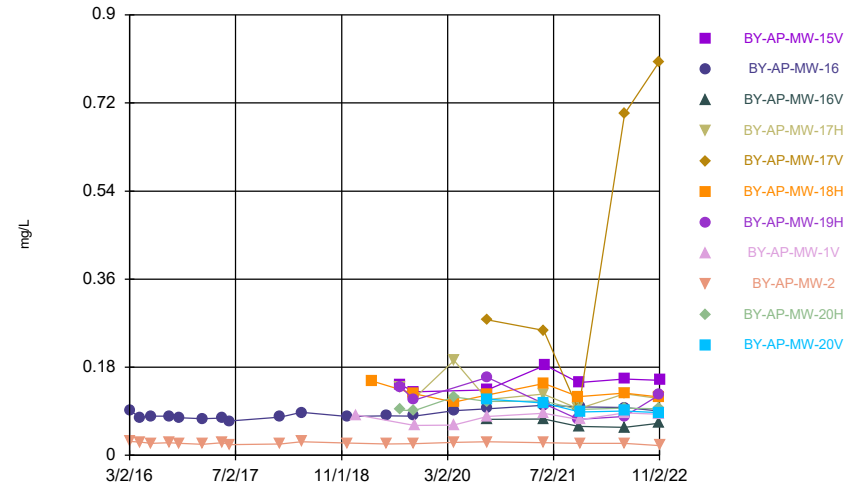
Constituent: Arsenic Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



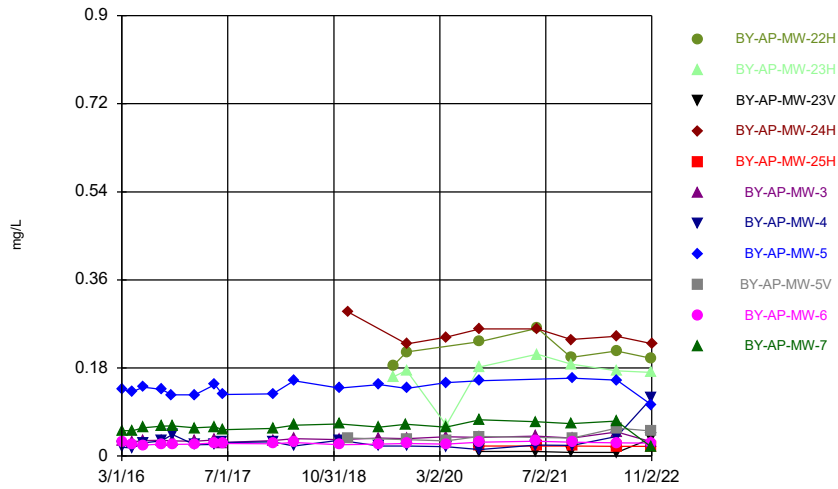
Constituent: Barium Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



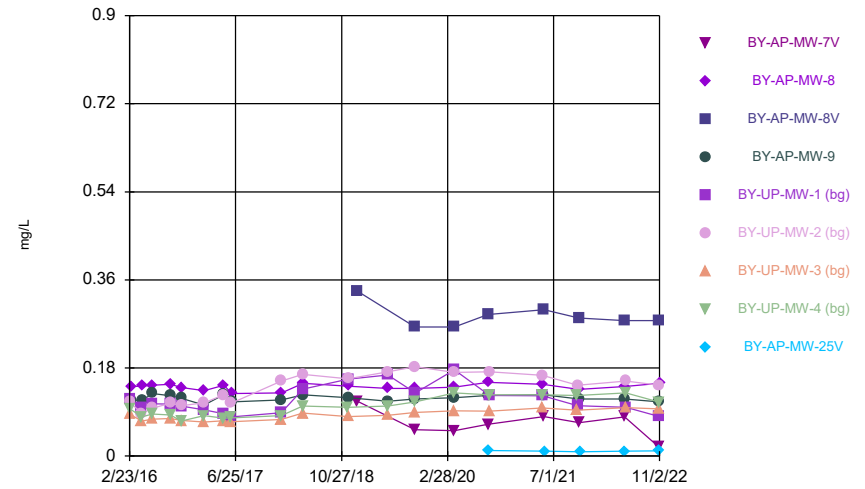
Constituent: Barium Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



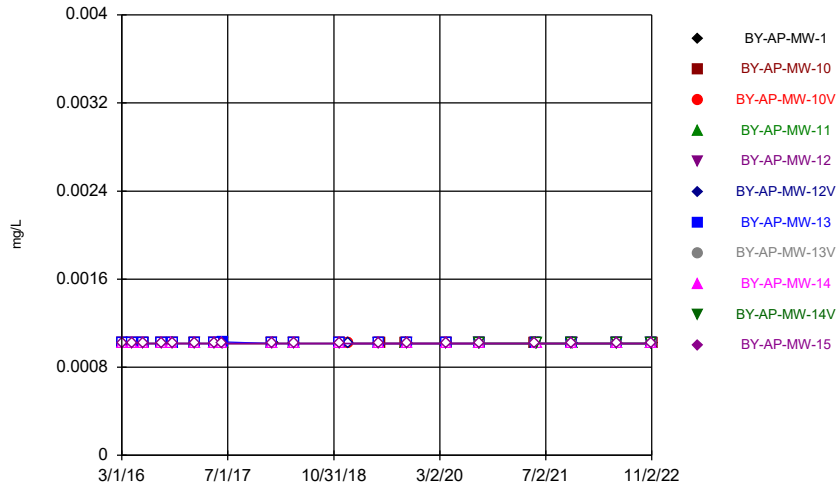
Constituent: Barium Analysis Run 12/28/2022 4:40 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



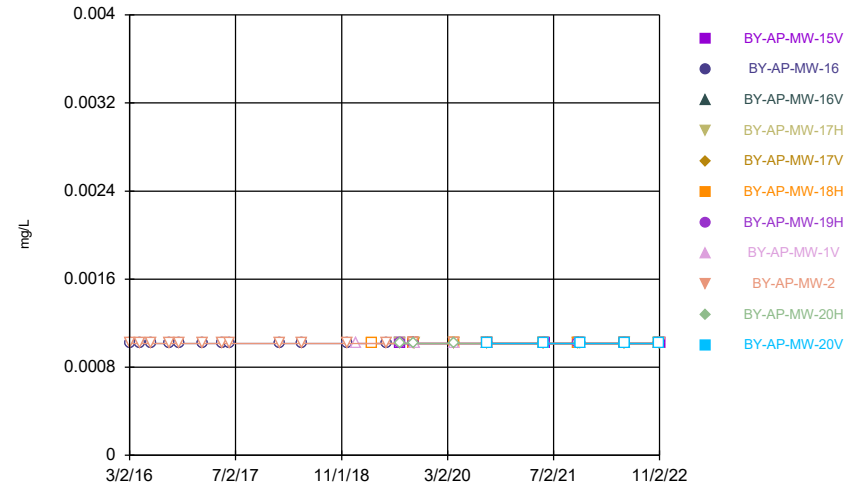
Constituent: Barium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



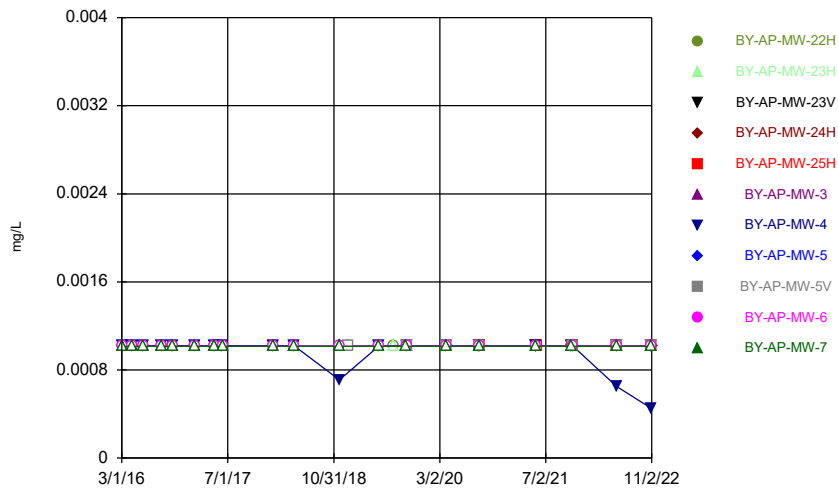
Constituent: Beryllium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



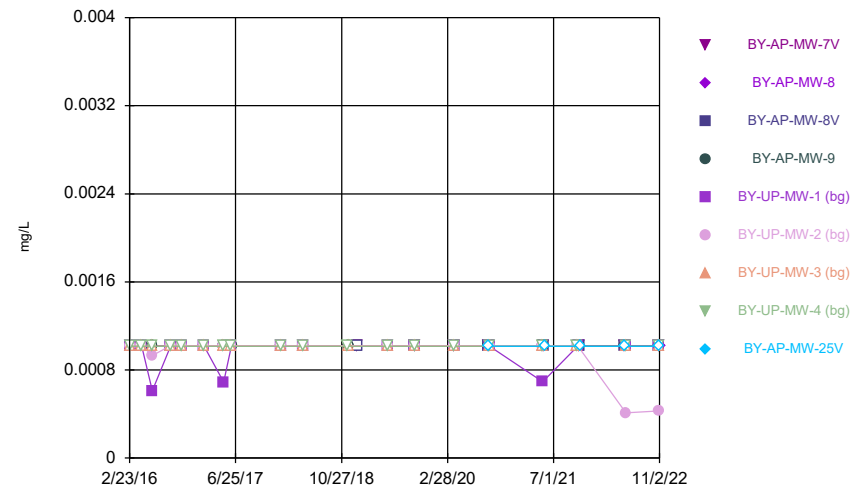
Constituent: Beryllium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



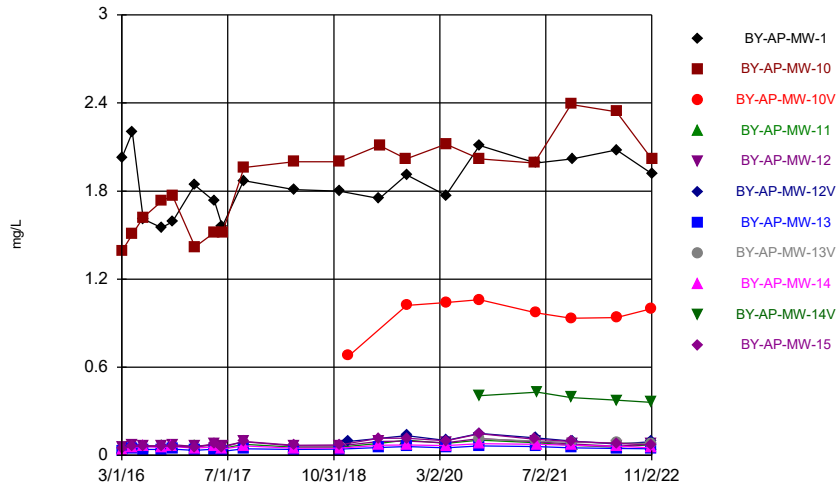
Constituent: Beryllium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Beryllium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

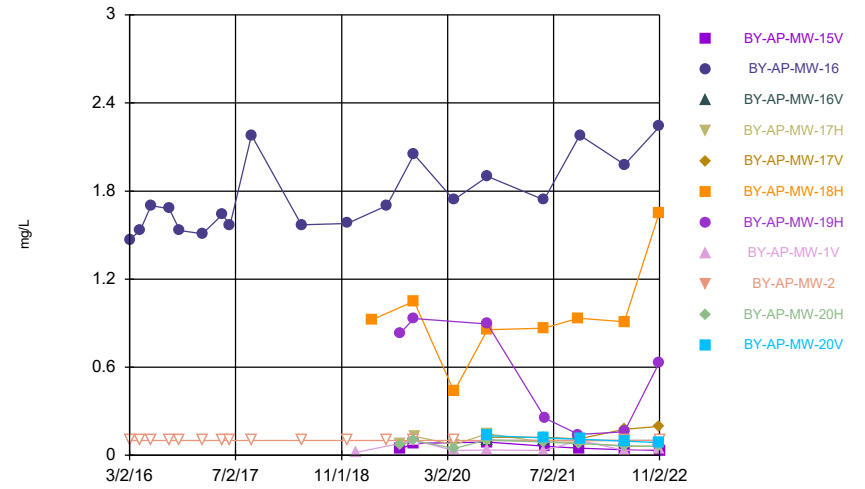
Time Series



Constituent: Boron, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

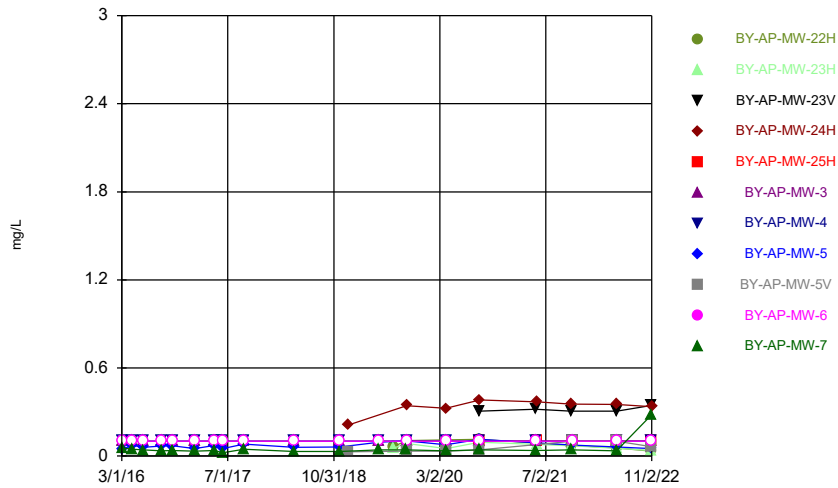
Time Series



Constituent: Boron, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

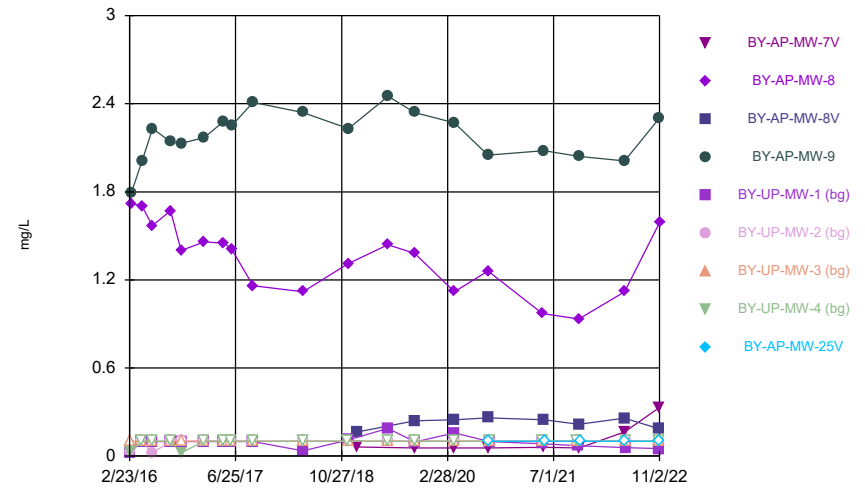
Time Series



Constituent: Boron, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

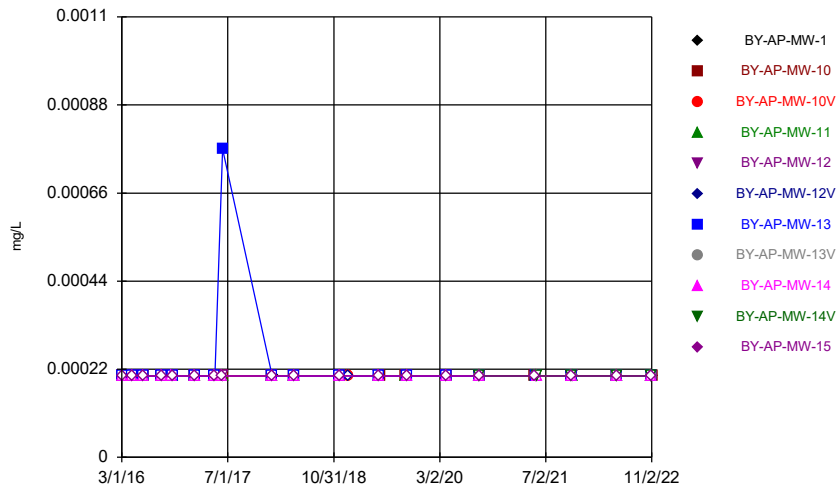
Hollow symbols indicate censored values.

Time Series



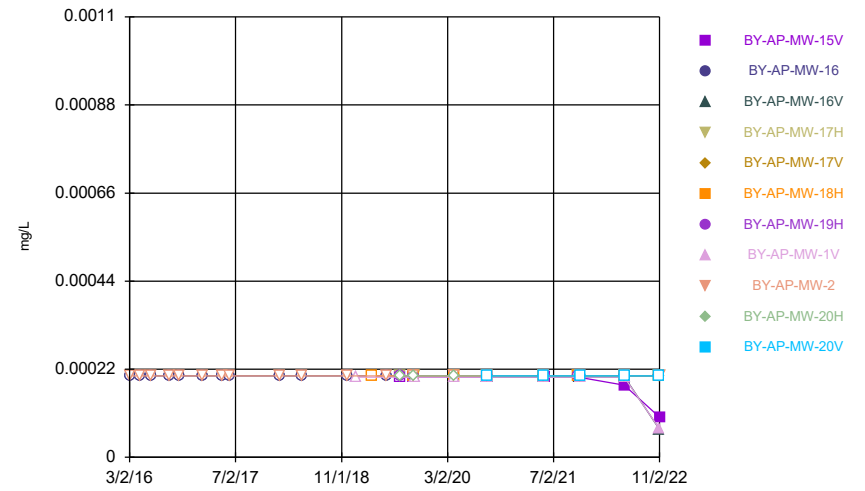
Constituent: Boron, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



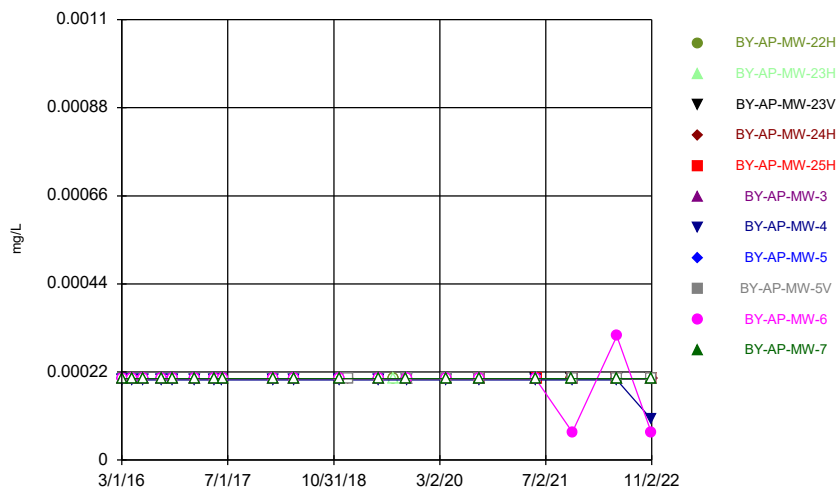
Constituent: Cadmium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



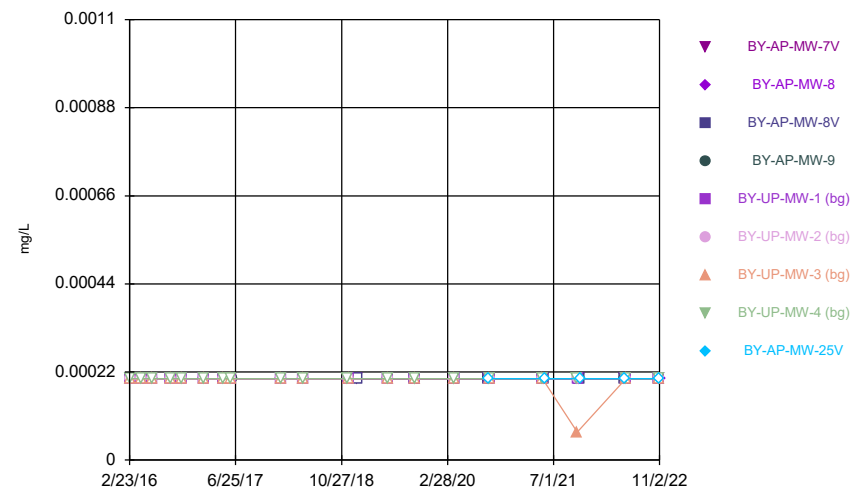
Constituent: Cadmium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



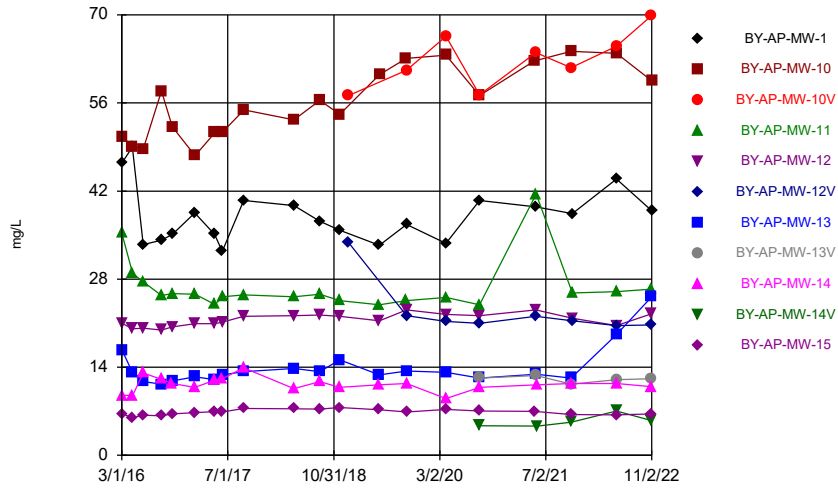
Constituent: Cadmium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



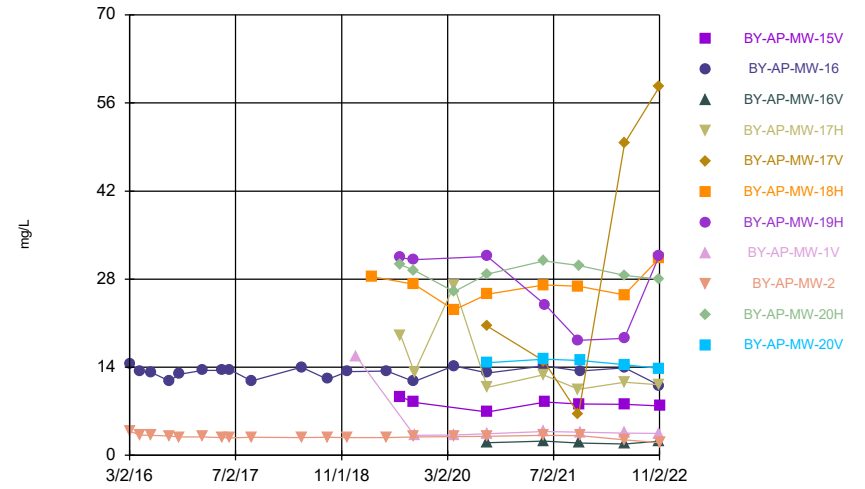
Constituent: Cadmium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



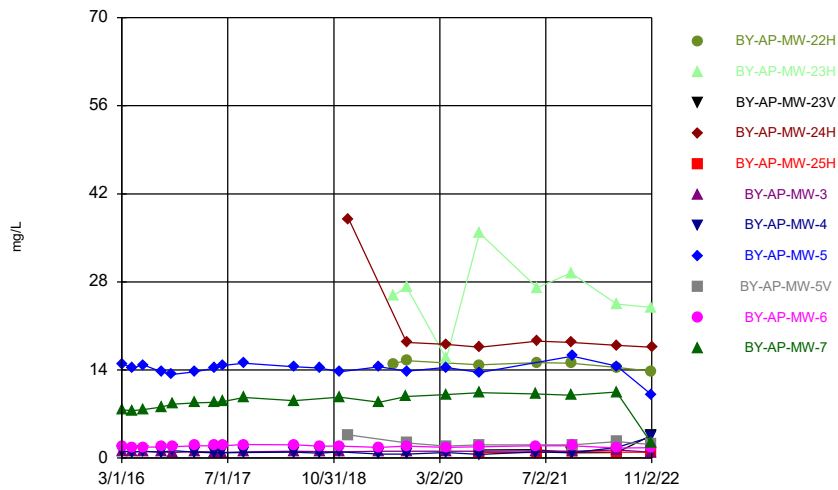
Constituent: Calcium, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



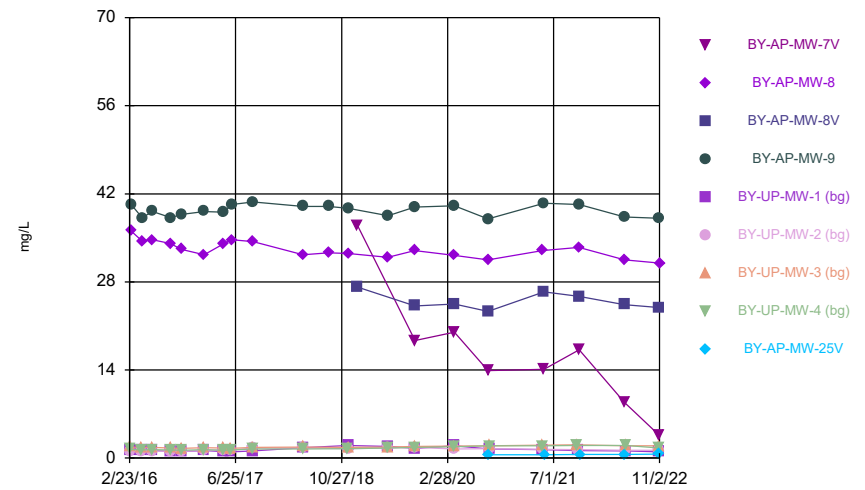
Constituent: Calcium, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



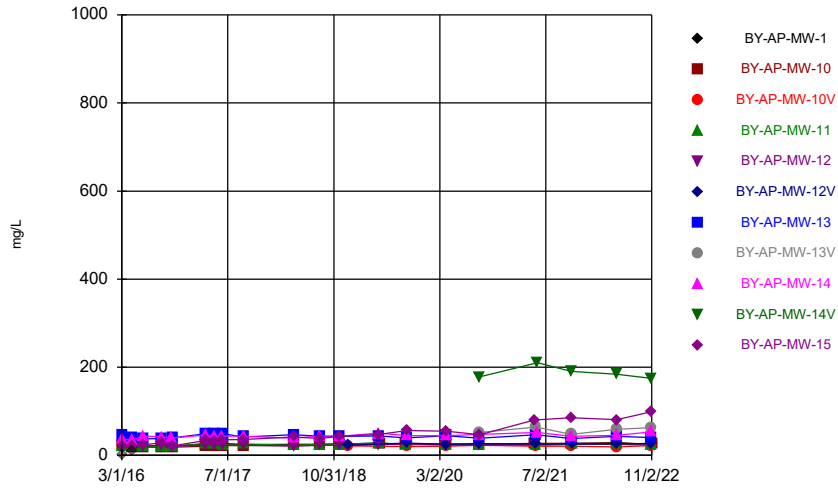
Constituent: Calcium, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



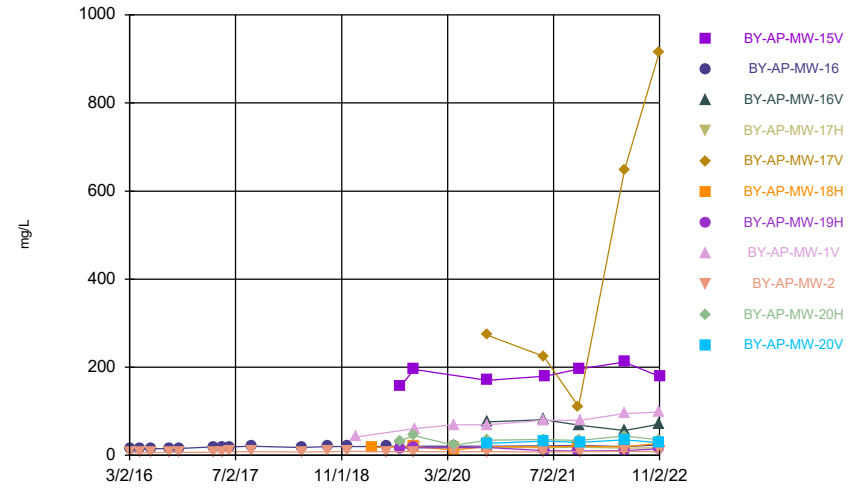
Constituent: Calcium, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



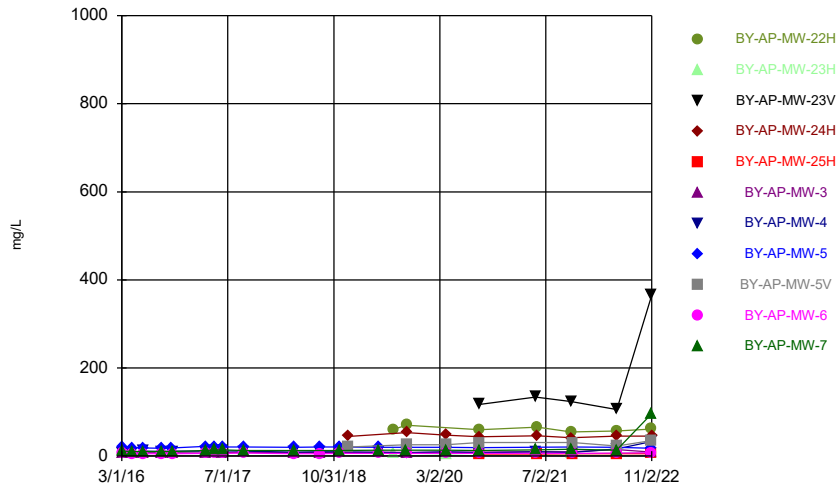
Constituent: Chloride, Total Analysis Run 12/28/2022 4:41 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



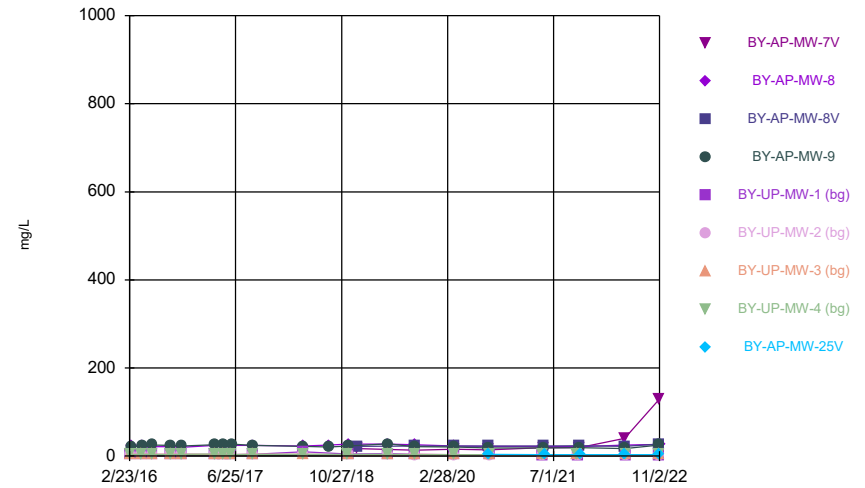
Constituent: Chloride, Total Analysis Run 12/28/2022 4:41 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



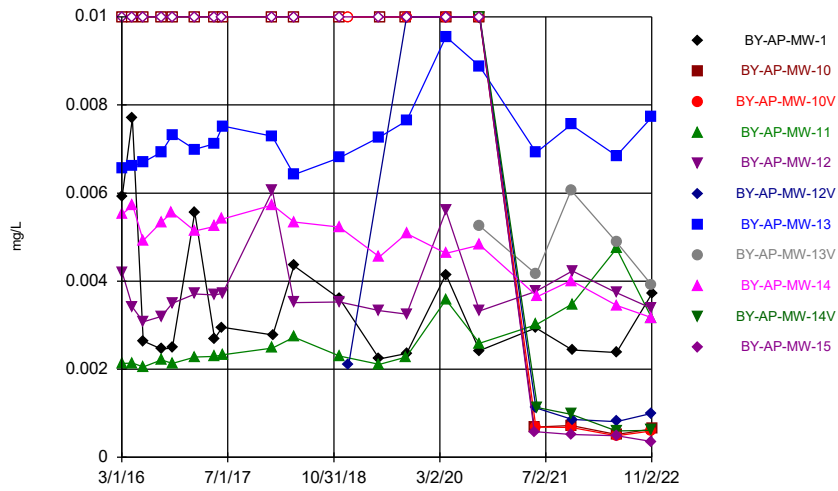
Constituent: Chloride, Total Analysis Run 12/28/2022 4:41 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



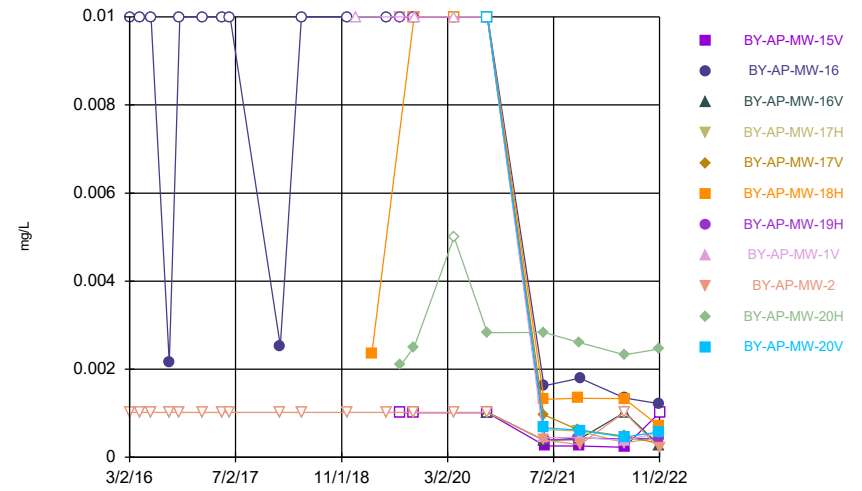
Constituent: Chloride, Total Analysis Run 12/28/2022 4:41 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



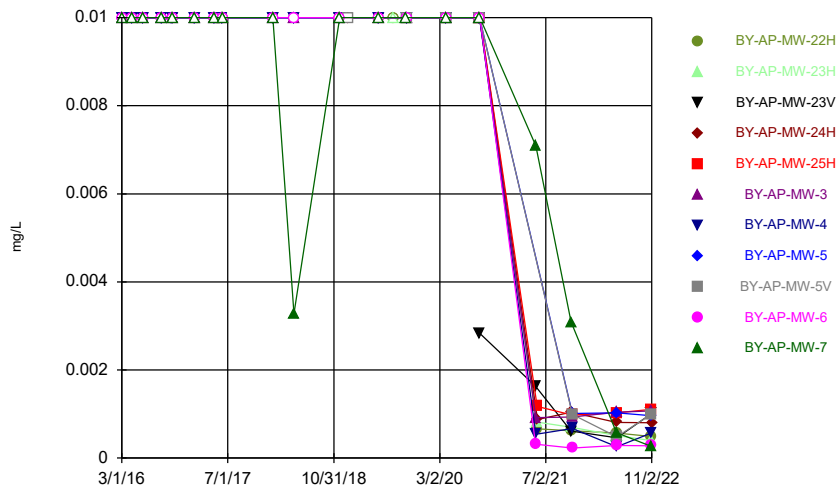
Constituent: Chromium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



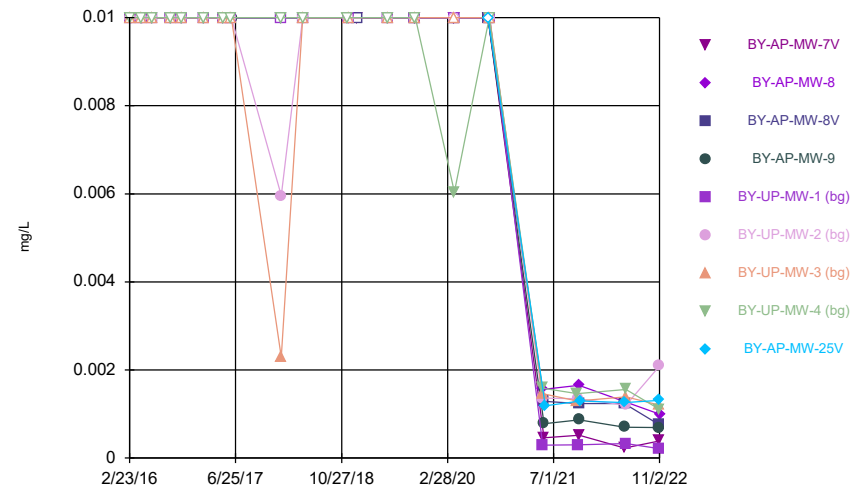
Constituent: Chromium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



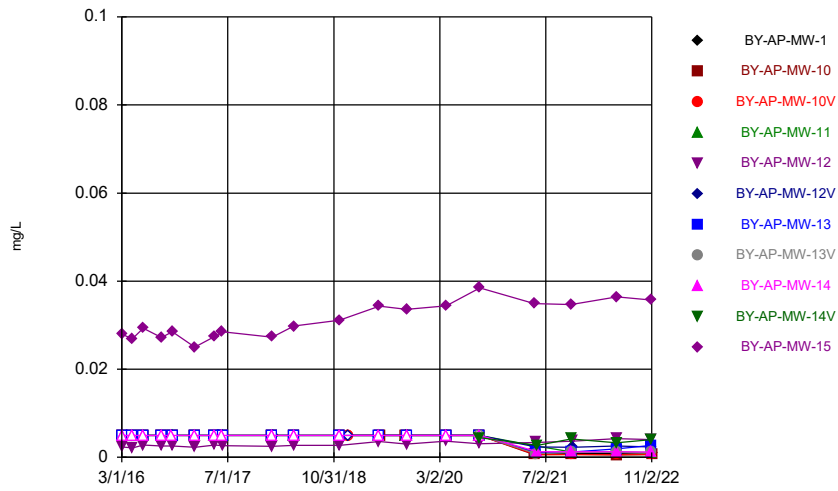
Constituent: Chromium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



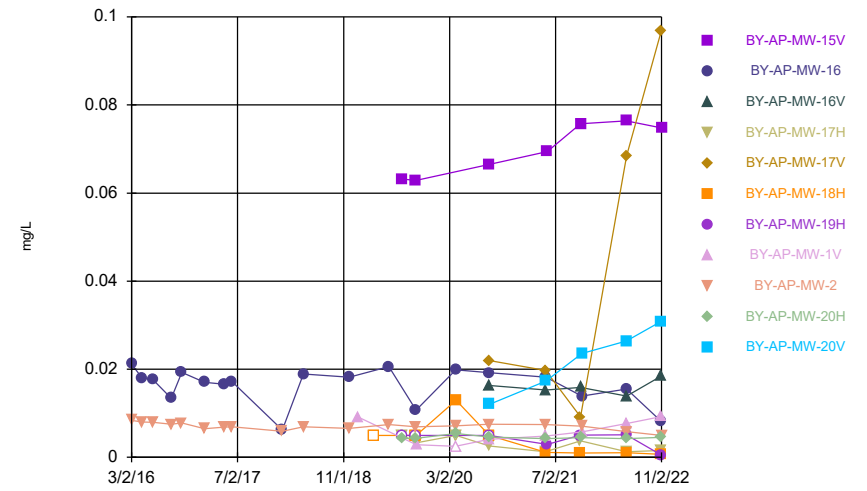
Constituent: Chromium Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



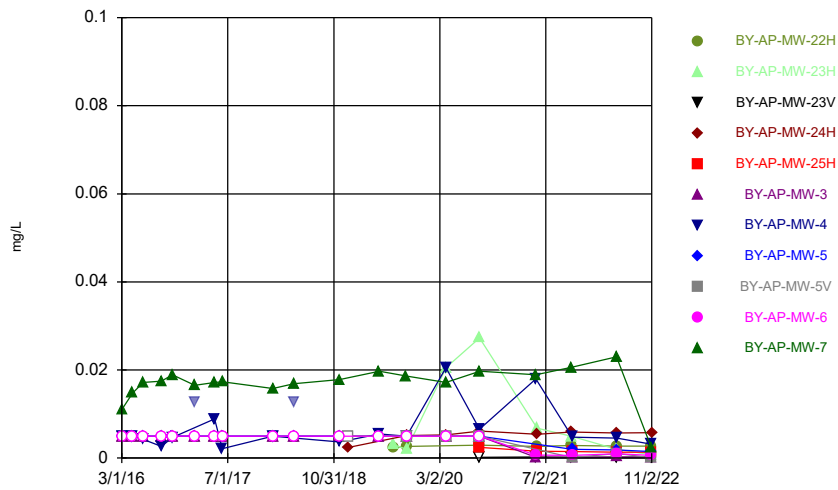
Constituent: Cobalt Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



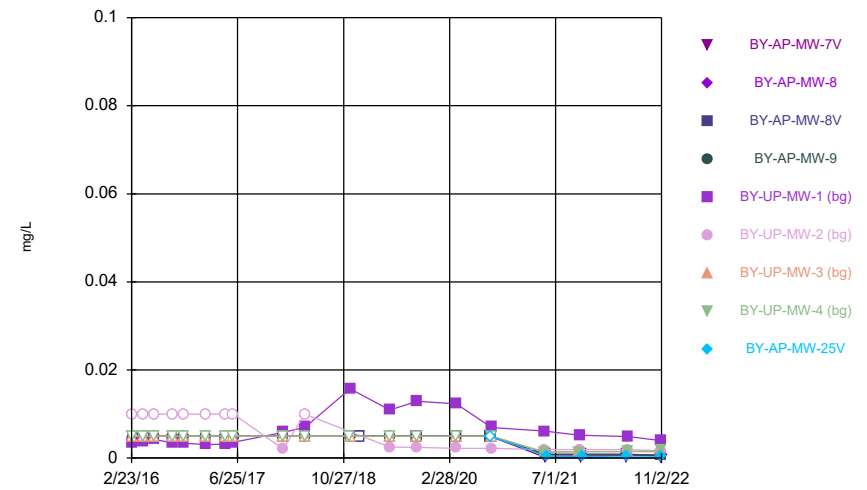
Constituent: Cobalt Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



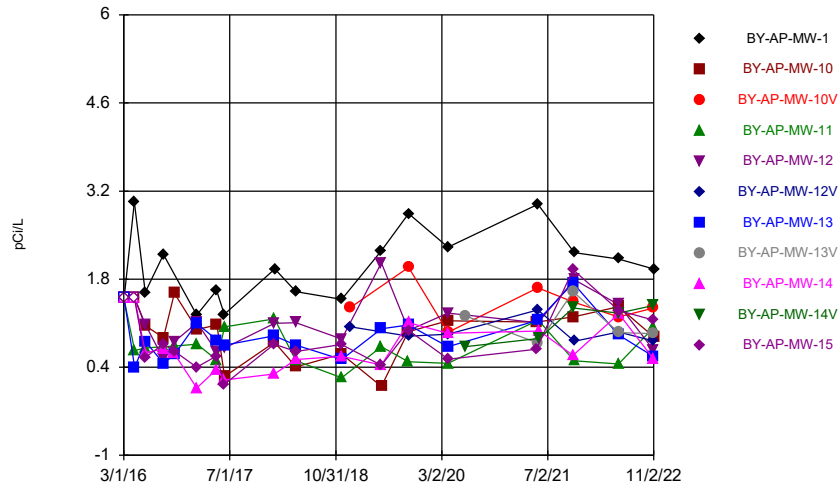
Constituent: Cobalt Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



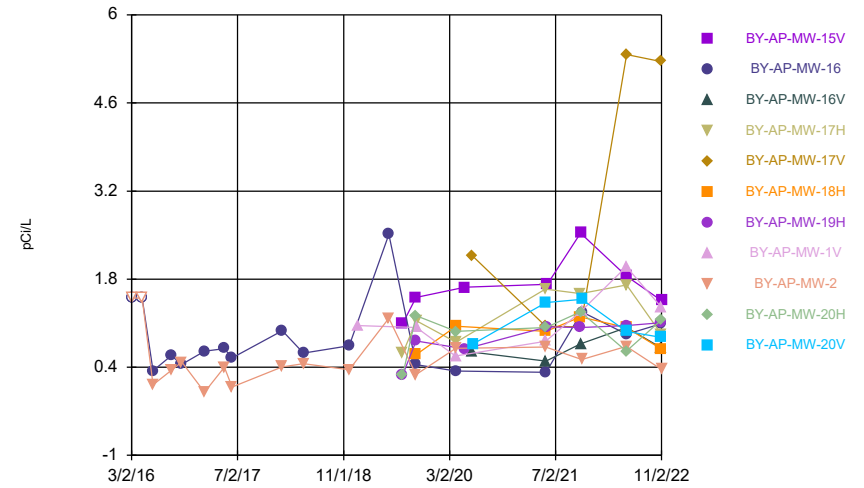
Constituent: Cobalt Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



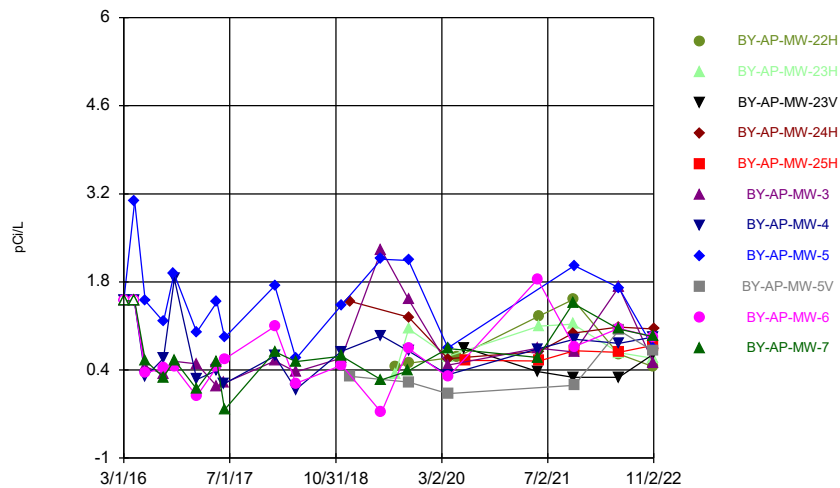
Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



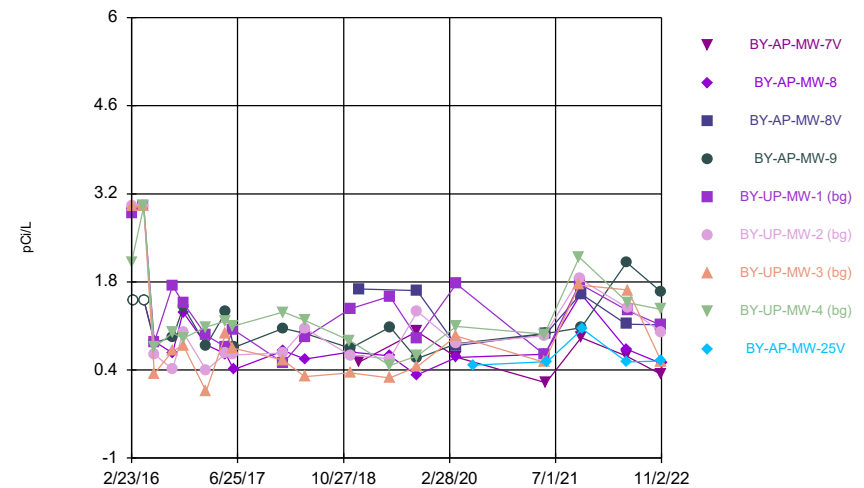
Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



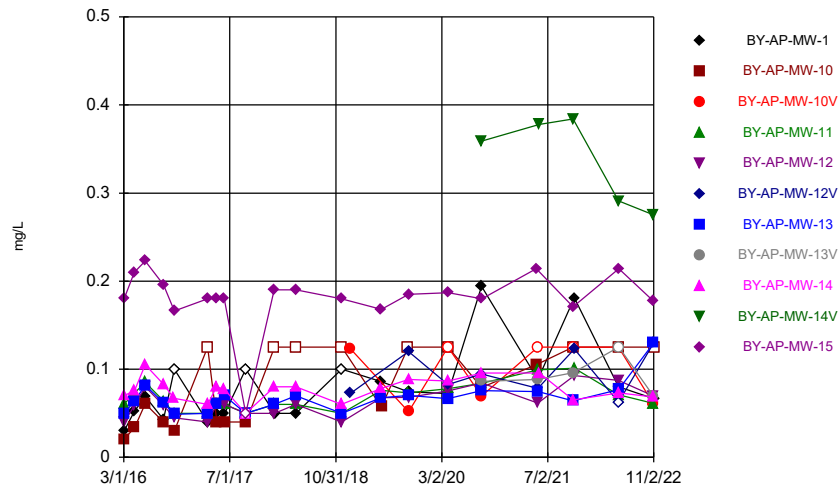
Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



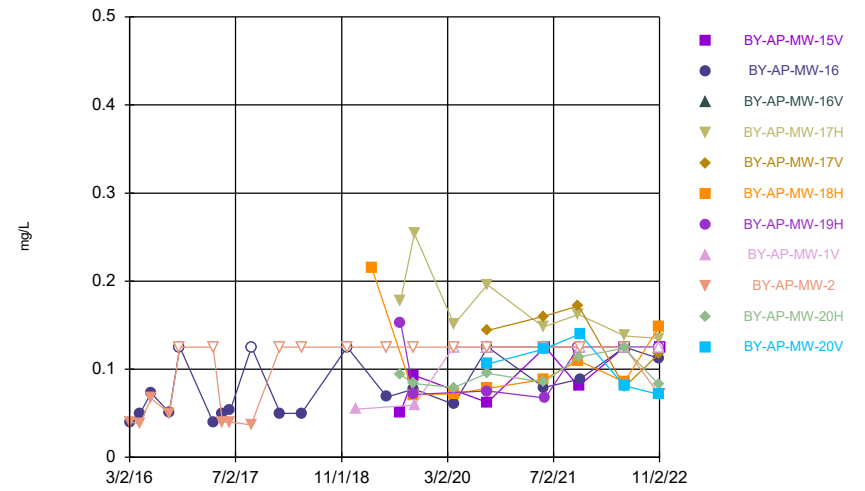
Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



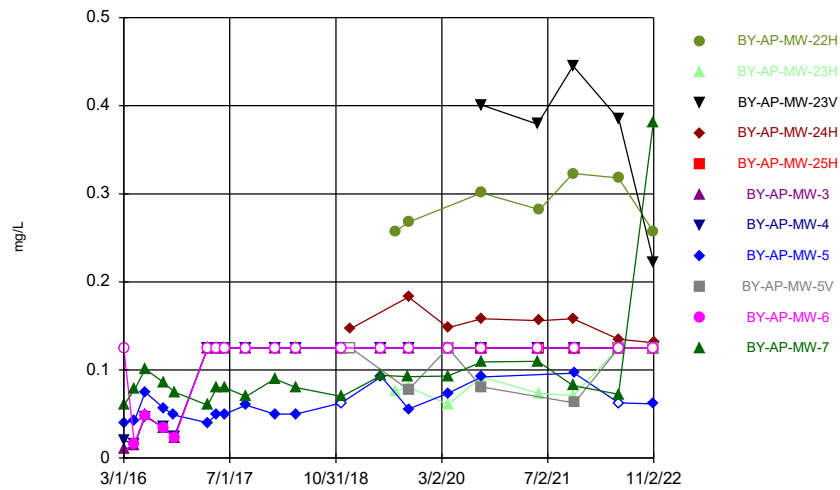
Constituent: Fluoride, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



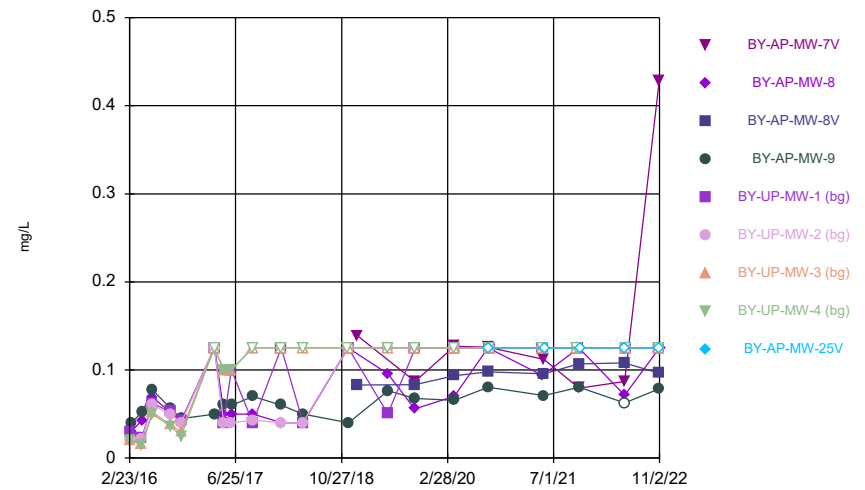
Constituent: Fluoride, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



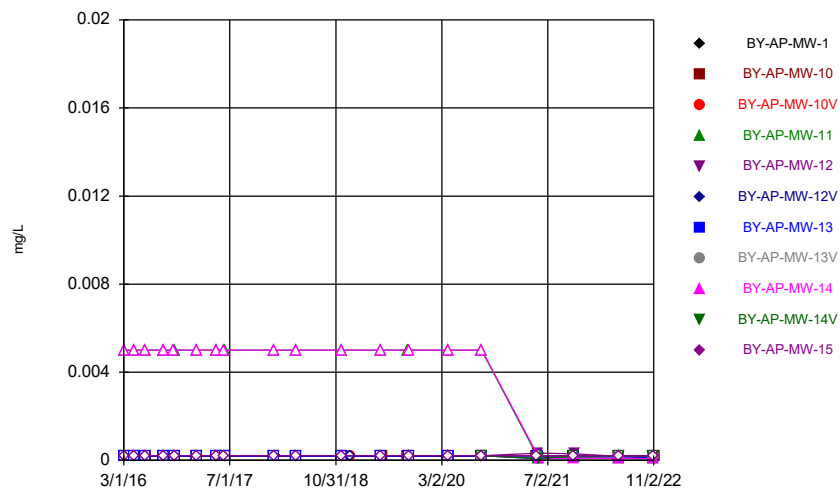
Constituent: Fluoride, total Analysis Run 12/28/2022 4:41 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



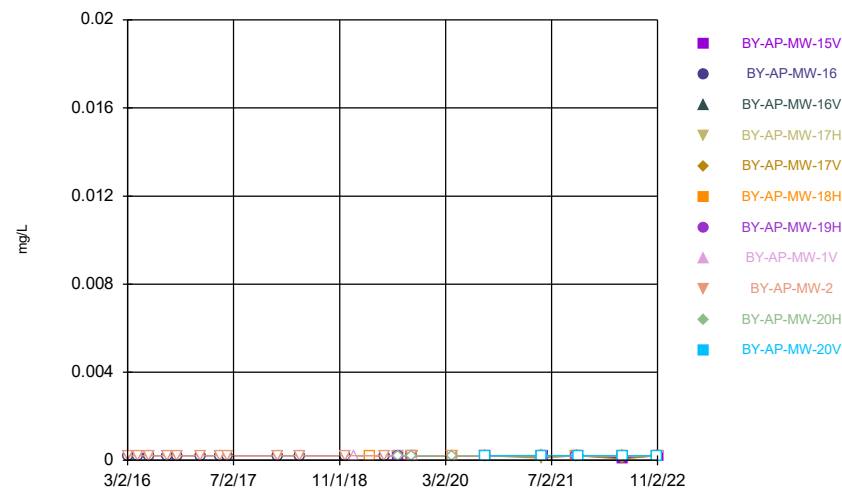
Constituent: Fluoride, total Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



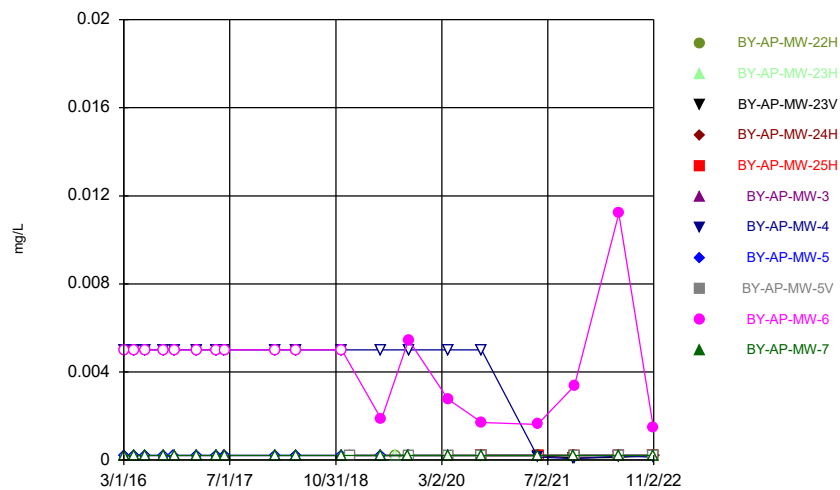
Constituent: Lead Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



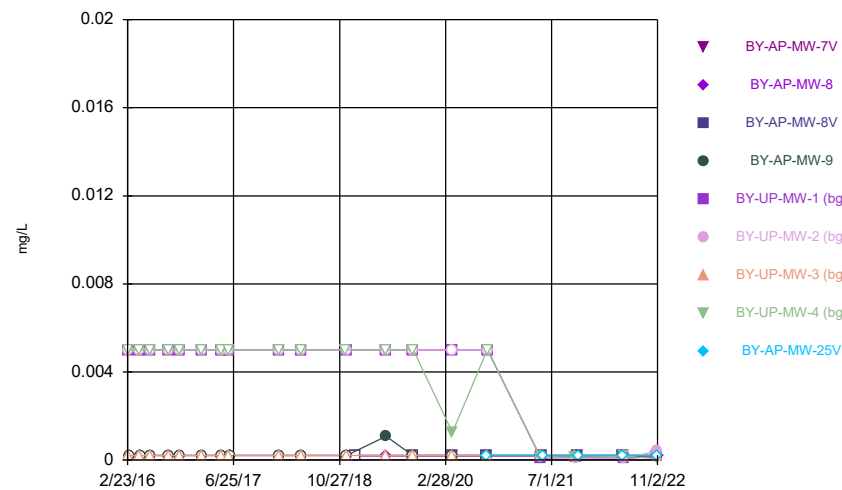
Constituent: Lead Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



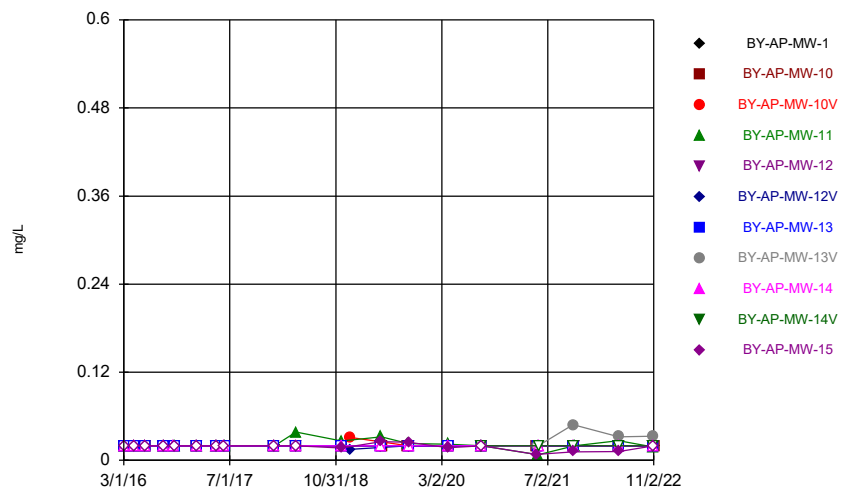
Constituent: Lead Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



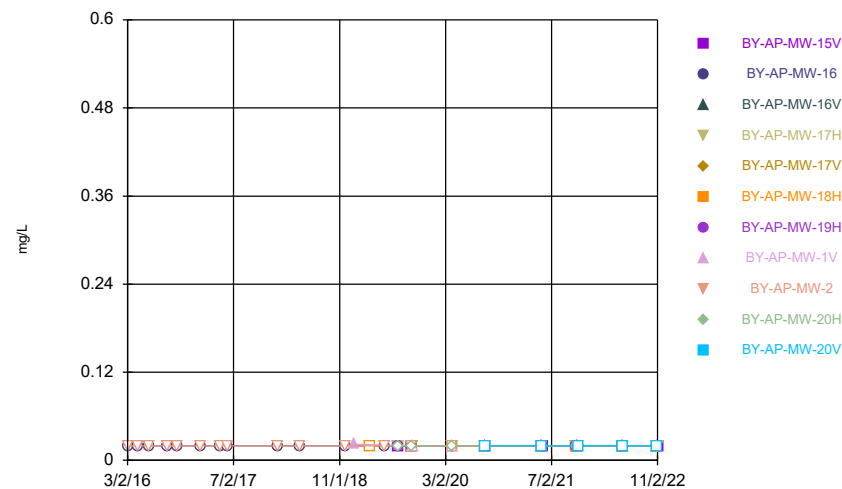
Constituent: Lead Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



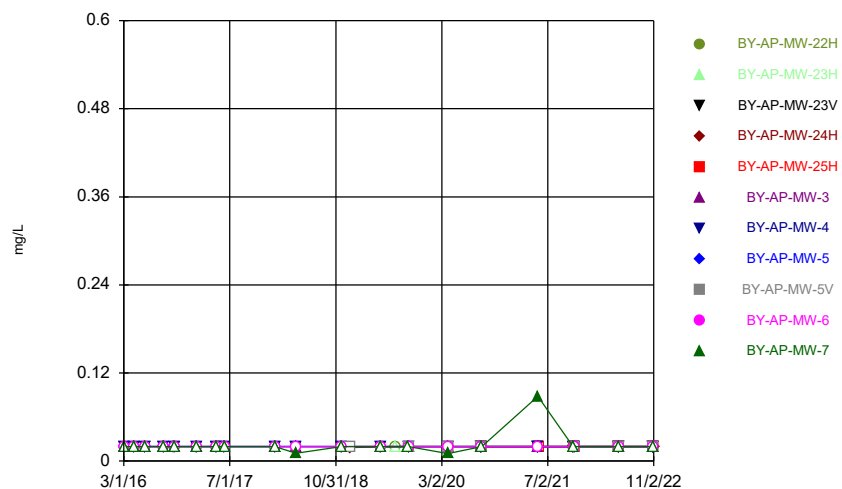
Constituent: Lithium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



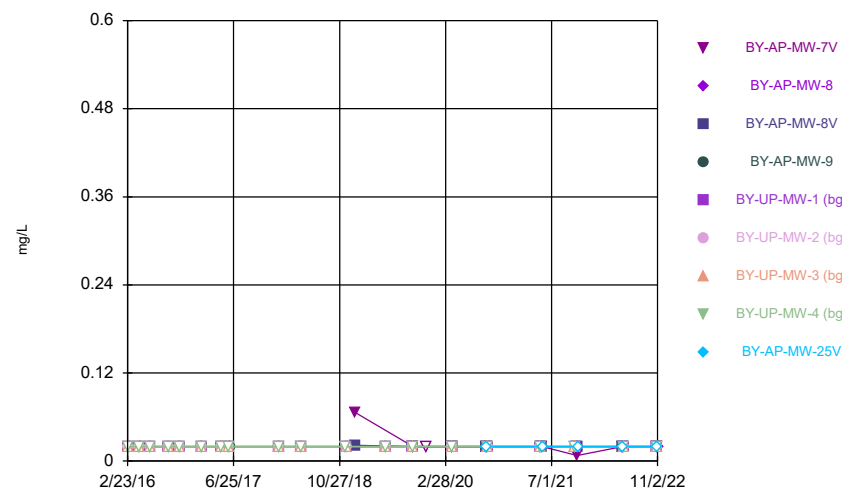
Constituent: Lithium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



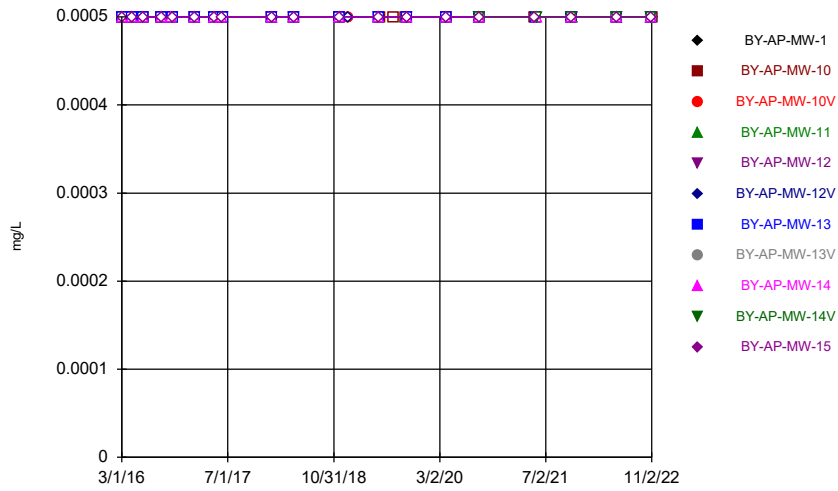
Constituent: Lithium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



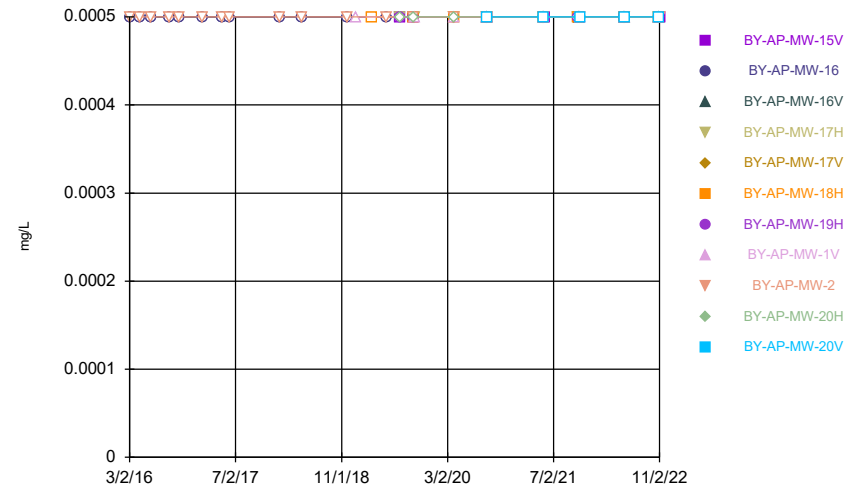
Constituent: Lithium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



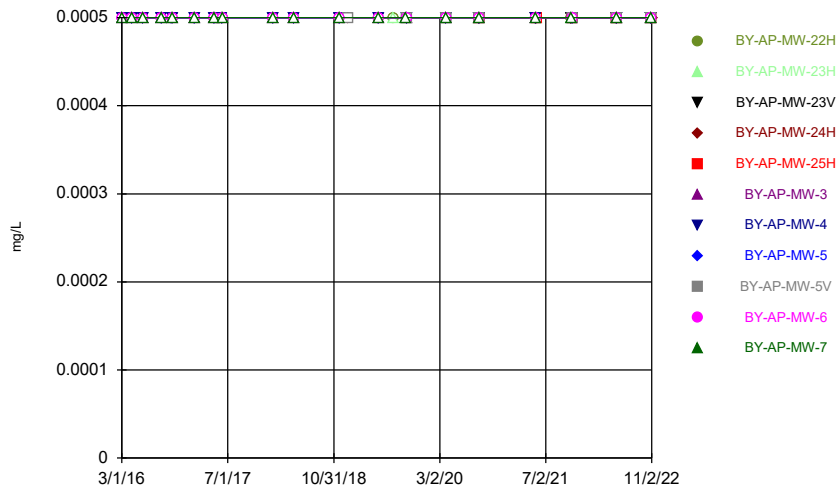
Constituent: Mercury Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



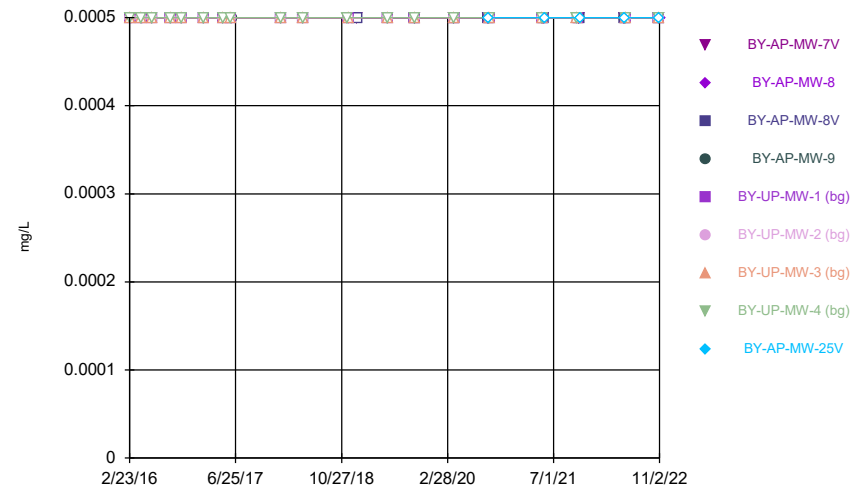
Constituent: Mercury Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



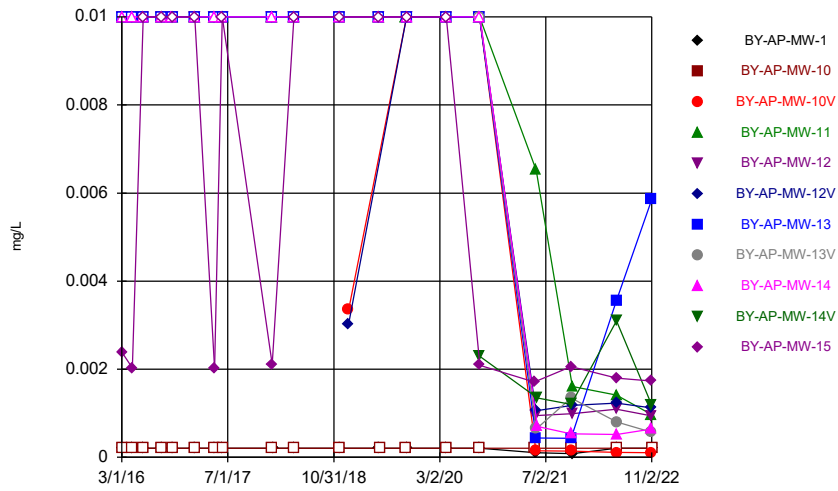
Constituent: Mercury Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



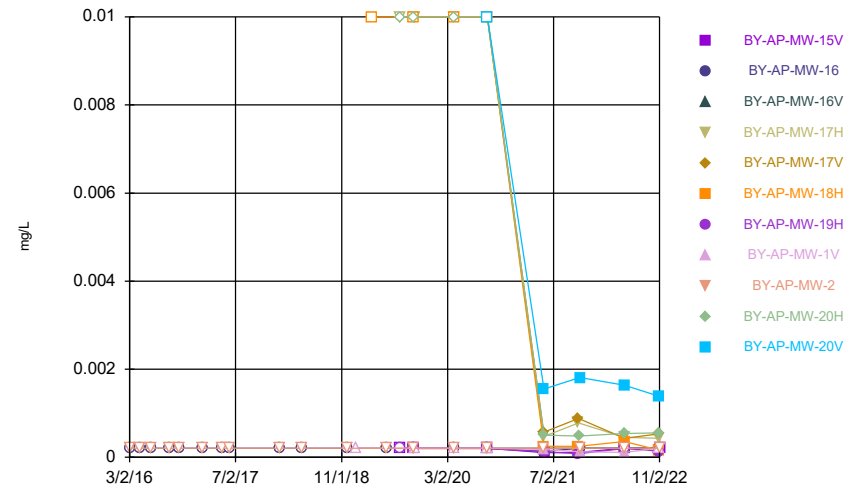
Constituent: Mercury Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



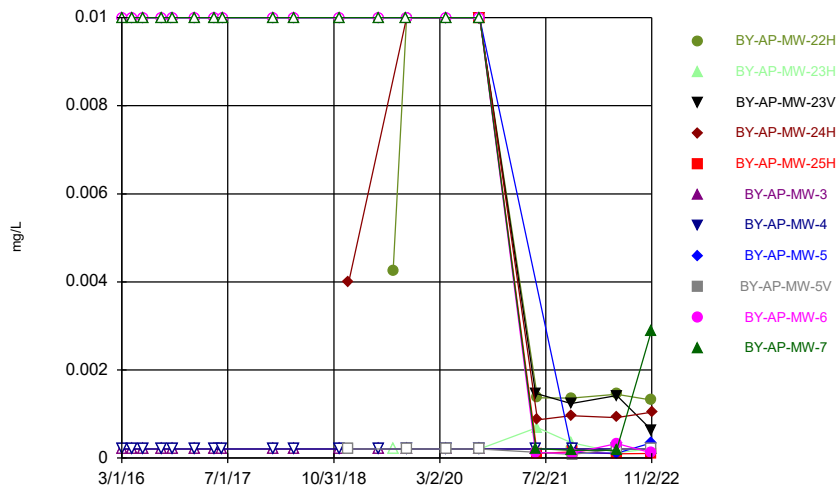
Constituent: Molybdenum Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



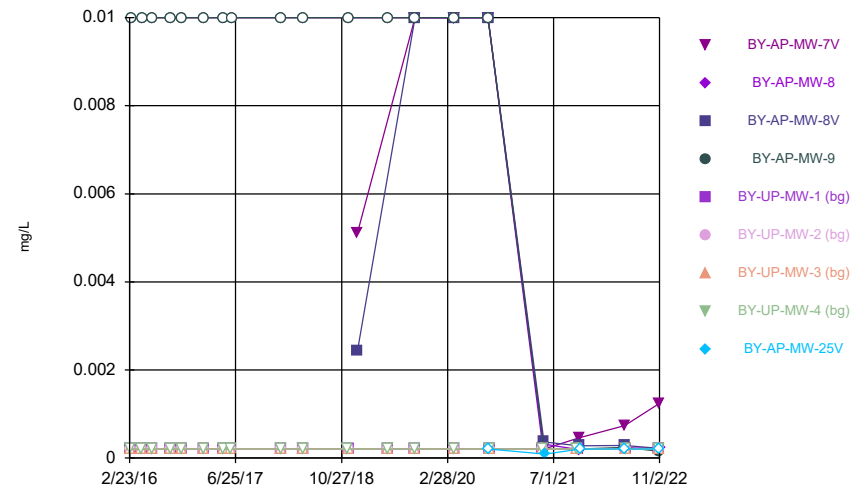
Constituent: Molybdenum Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



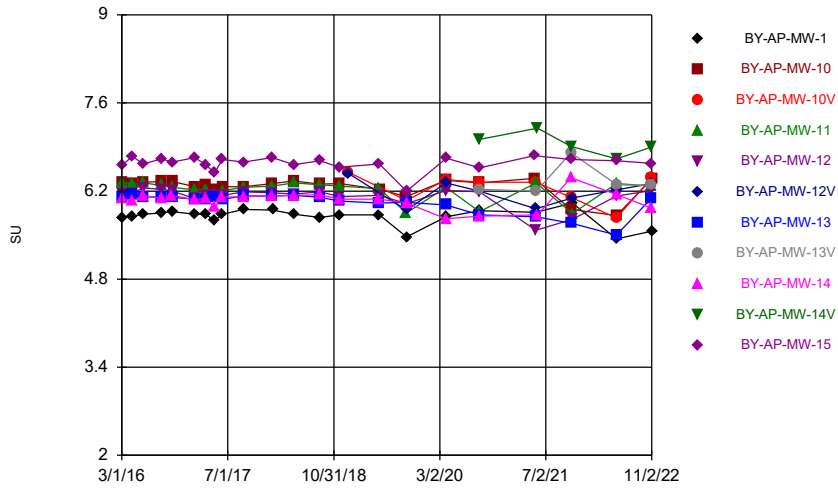
Constituent: Molybdenum Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



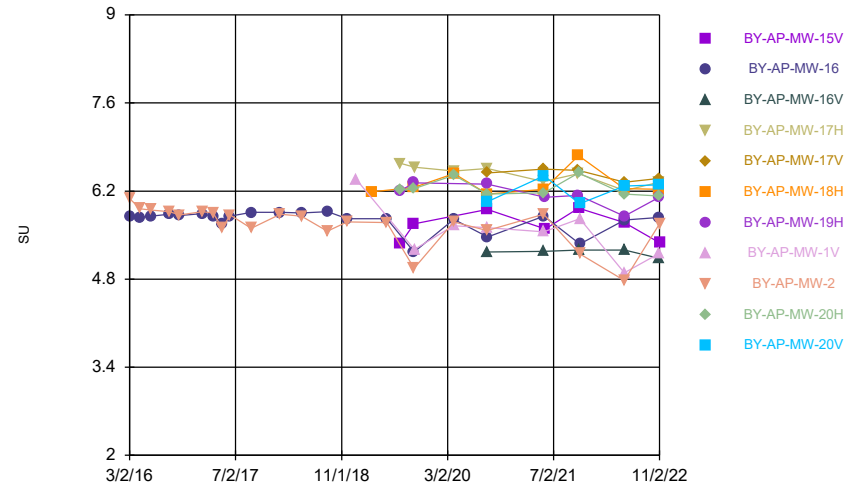
Constituent: Molybdenum Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



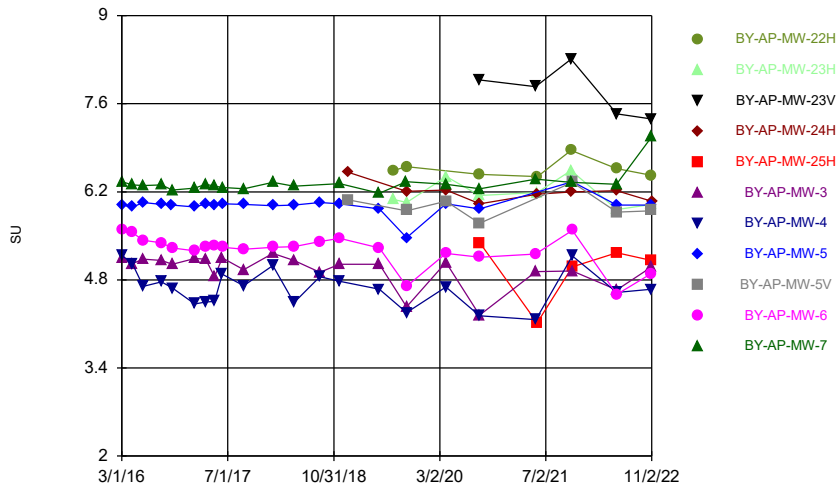
Constituent: pH, field Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



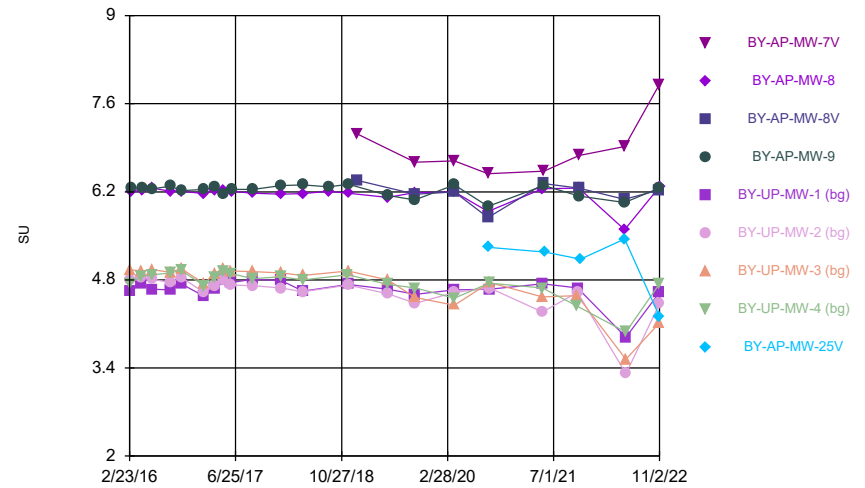
Constituent: pH, field Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



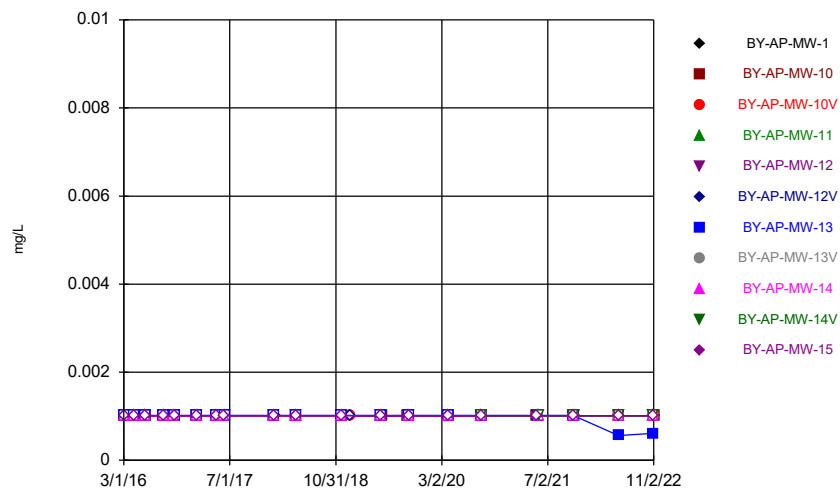
Constituent: pH, field Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



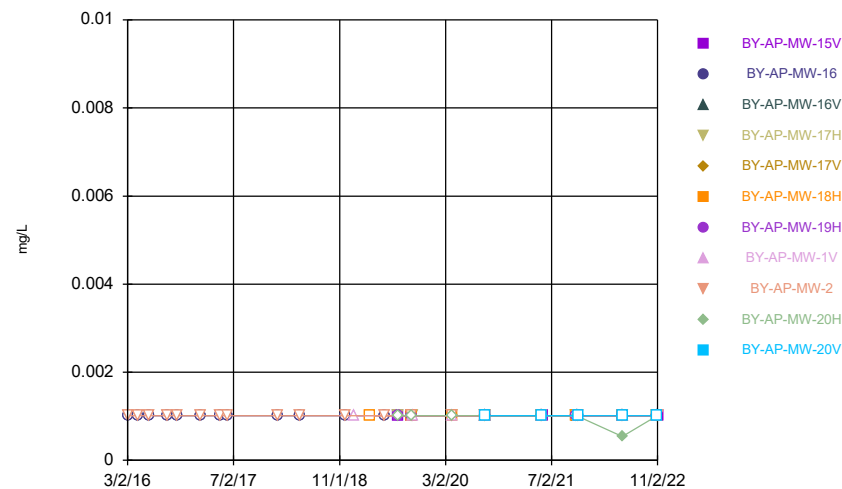
Constituent: pH, field Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



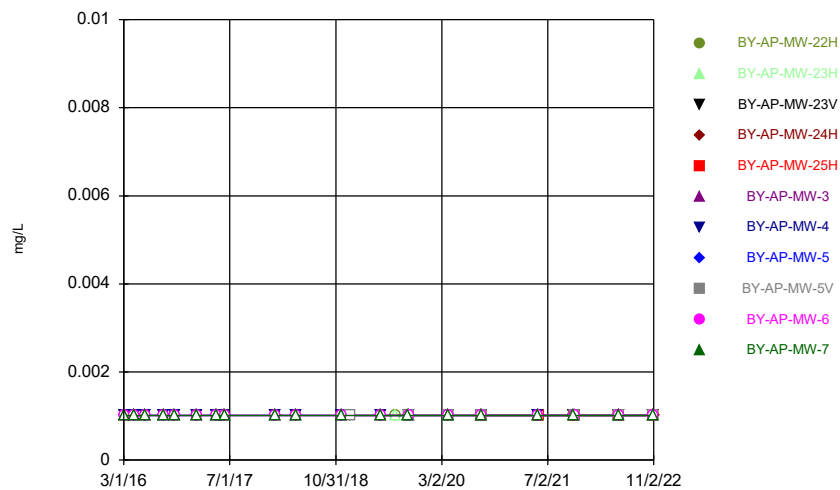
Constituent: Selenium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



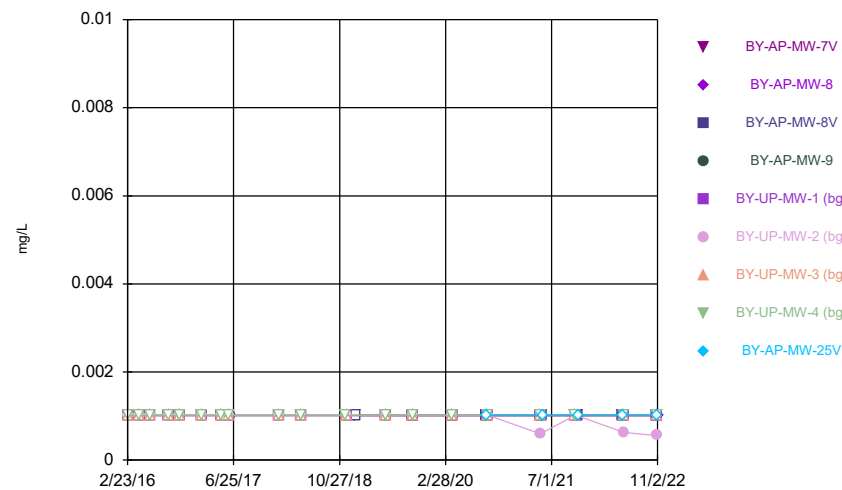
Constituent: Selenium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



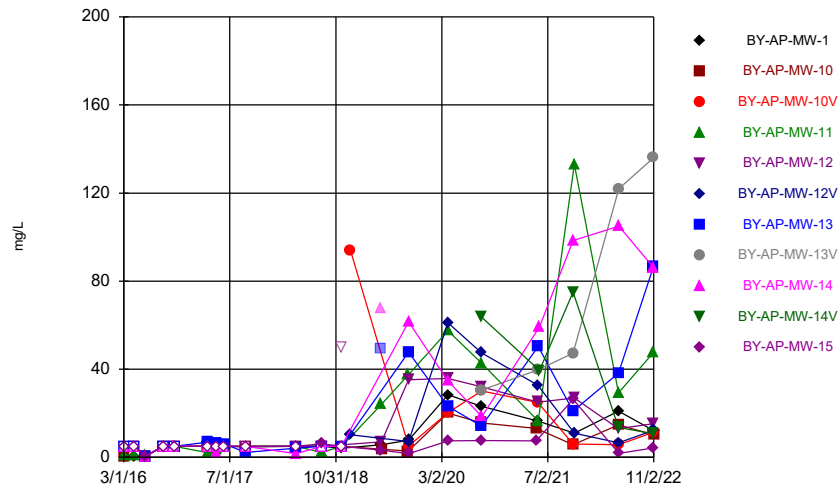
Constituent: Selenium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



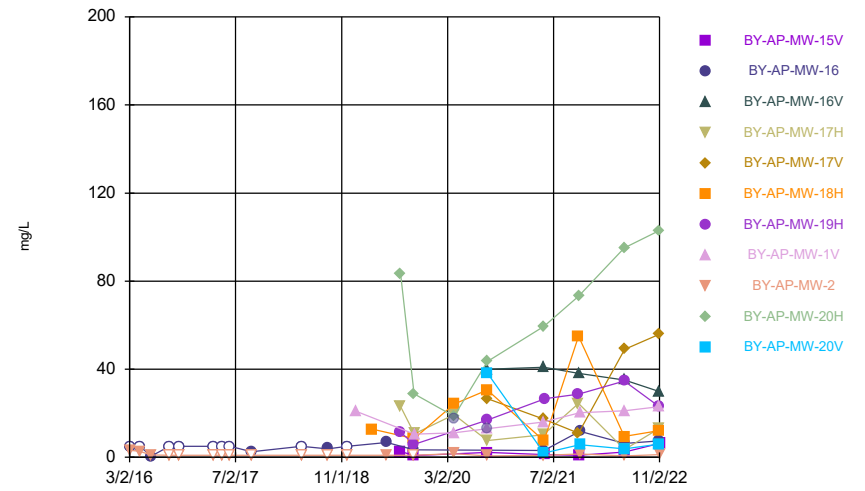
Constituent: Selenium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



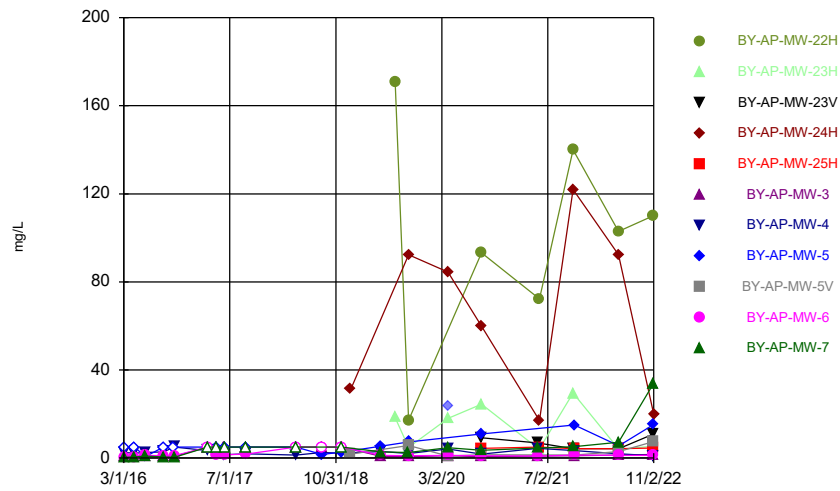
Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



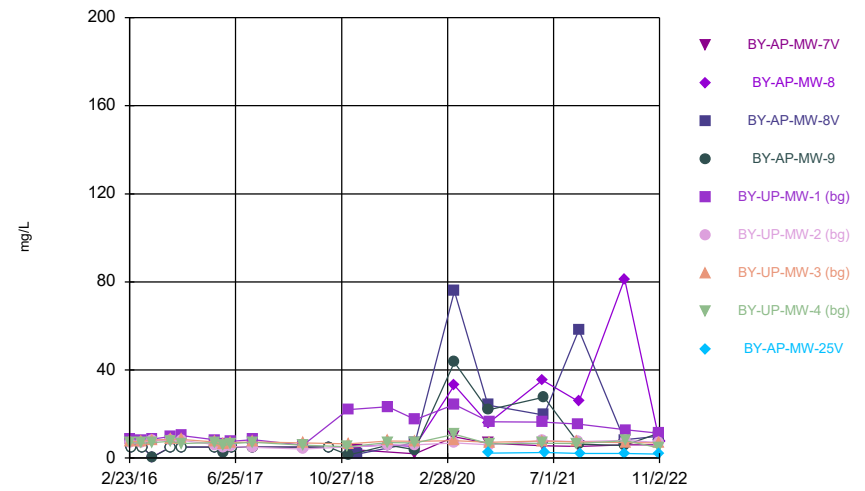
Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



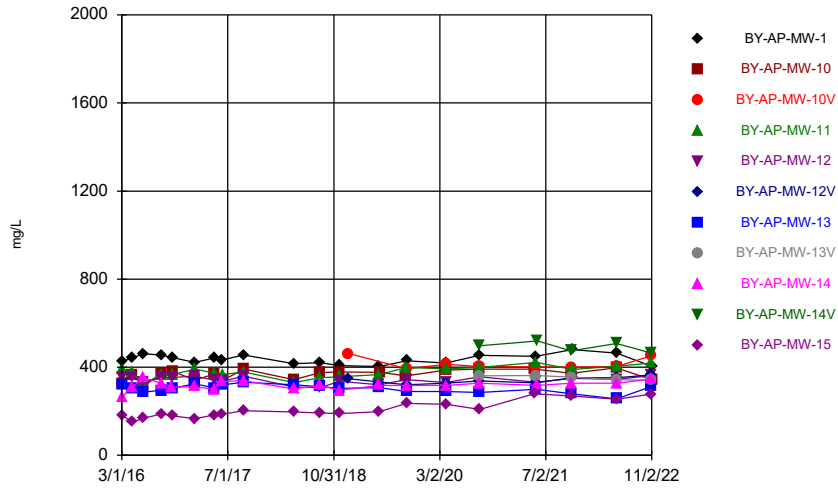
Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



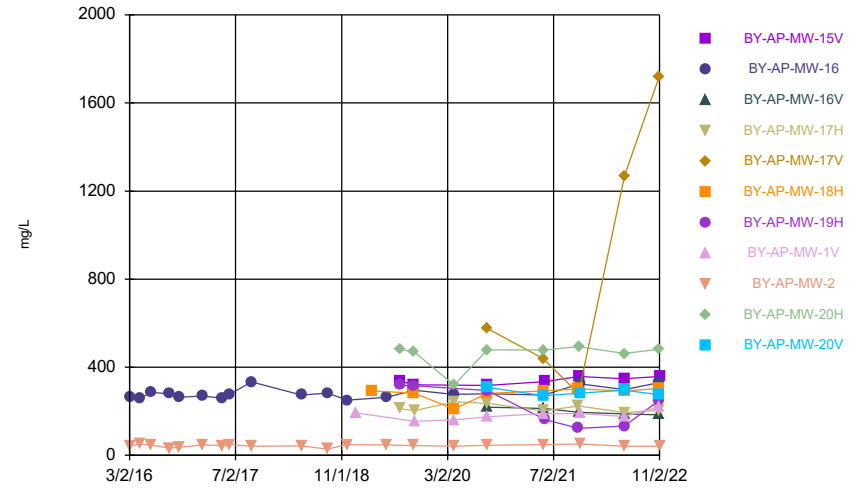
Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



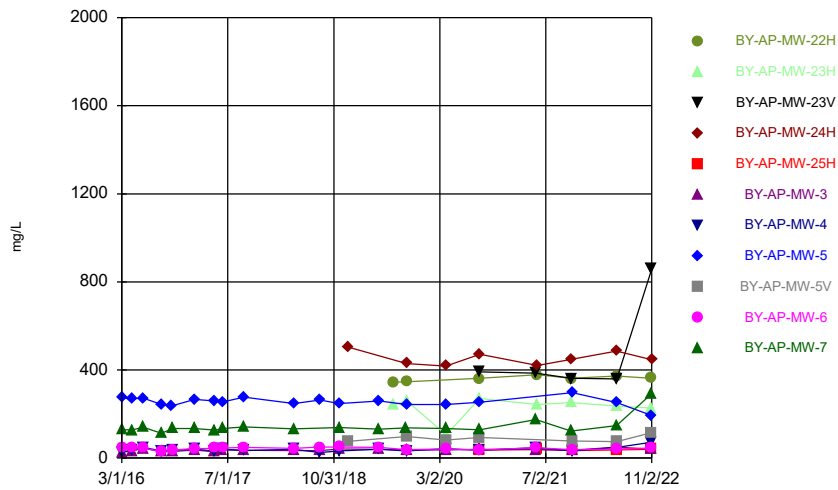
Constituent: TDS Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



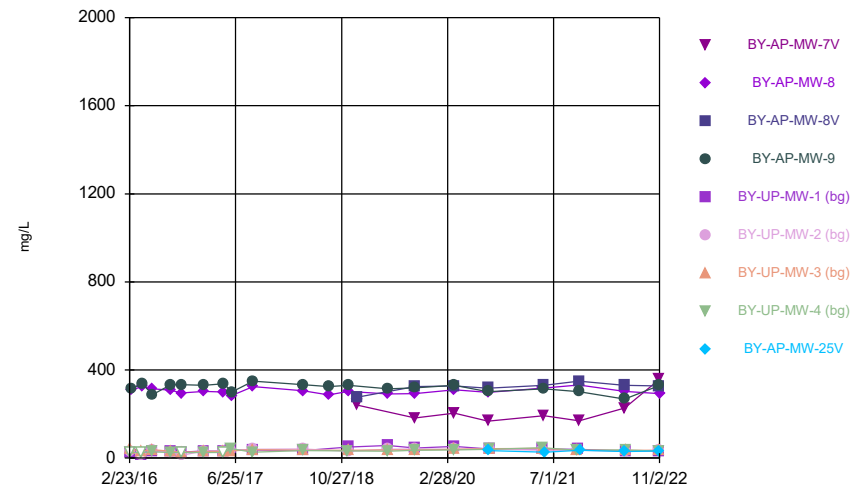
Constituent: TDS Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



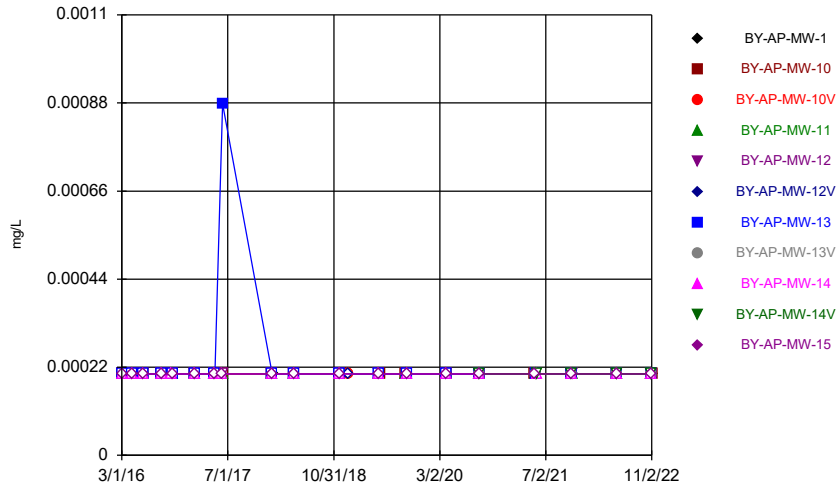
Constituent: TDS Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



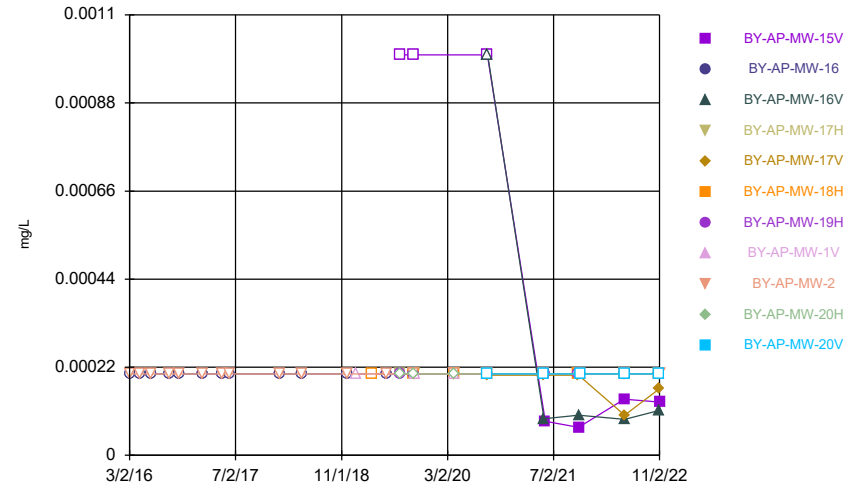
Constituent: TDS Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



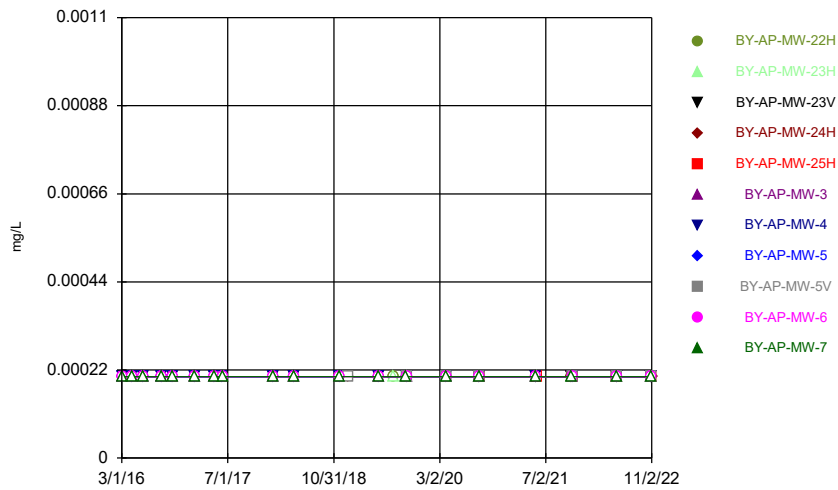
Constituent: Thallium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



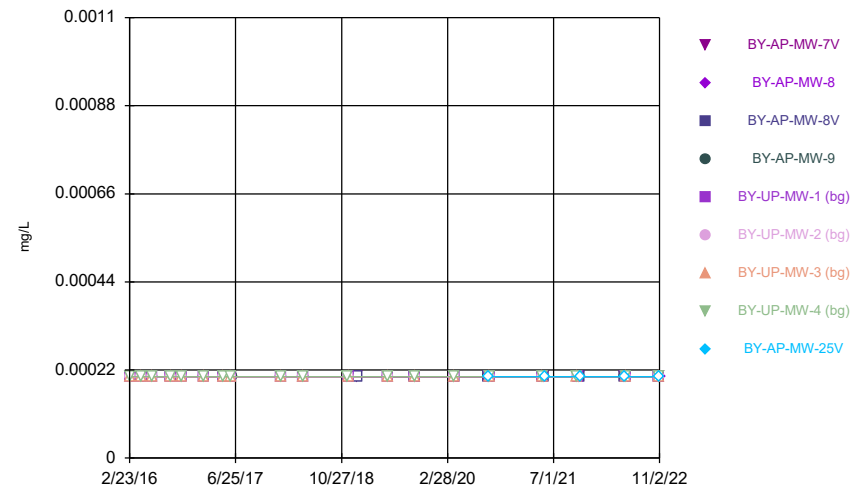
Constituent: Thallium Analysis Run 12/28/2022 4:42 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 12/28/2022 4:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series



Constituent: Thallium Analysis Run 12/28/2022 4:43 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.001015		<0.001015					
3/2/2016	<0.001015				<0.001015		<0.001015		<0.001015
4/19/2016	<0.001015								
4/20/2016		<0.001015		<0.001015	<0.001015		<0.001015		<0.001015
6/8/2016	<0.001015	<0.001015		<0.001015	<0.001015		0.00111 (J)		<0.001015
8/30/2016									<0.001015
8/31/2016	<0.001015	<0.001015		<0.001015	<0.001015		<0.001015		
10/18/2016									<0.001015
10/19/2016	<0.001015	<0.001015		<0.001015	<0.001015		<0.001015		
1/31/2017	0.000687 (J)						0.000834 (J)		0.00086 (J)
2/1/2017		0.000743 (J)		0.000812 (J)	0.000838 (J)				
5/2/2017	<0.001015								<0.001015
5/3/2017		<0.001015		<0.001015	<0.001015		<0.001015		
6/6/2017	<0.001015								<0.001015
6/7/2017		<0.001015		<0.001015	<0.001015		0.000857 (J)		
1/22/2018							<0.001015		
1/23/2018		<0.001015		<0.001015	<0.001015				<0.001015
1/24/2018	<0.001015								
5/1/2018	<0.001015								
5/2/2018		<0.001015		<0.001015	<0.001015		<0.001015		<0.001015
11/27/2018									<0.001015
11/28/2018	<0.001015	<0.001015		<0.001015	<0.001015		<0.001015		
1/8/2019			0.000965 (J)			0.00117 (J)			
5/29/2019	<0.001015			<0.001015	<0.001015		<0.001015		<0.001015
5/30/2019		<0.001015							
9/30/2019		<0.001015		<0.001015					
10/1/2019	<0.001015		<0.001015		<0.001015		<0.001015		<0.001015
10/2/2019						<0.001015			
3/30/2020	<0.001015								
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
4/1/2020									
9/1/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
9/2/2020								<0.001015	<0.001015
5/11/2021		<0.001015							
5/18/2021	<0.001015		<0.001015		<0.001015	<0.001015			
5/19/2021				<0.001015			<0.001015	<0.001015	
5/25/2021									<0.001015
10/26/2021							<0.001015	<0.001015	
10/27/2021		<0.001015	<0.001015						<0.001015
11/1/2021	<0.001015				<0.001015	<0.001015			
11/2/2021				<0.001015					
5/23/2022				<0.001015	<0.001015	<0.001015			
5/24/2022	<0.001015	<0.001015	<0.001015				<0.001015		
5/25/2022								<0.001015	<0.001015
11/1/2022			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/2/2022	<0.001015	<0.001015							

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.001015
4/19/2016		<0.001015
4/20/2016		
6/8/2016		<0.001015
8/30/2016		
8/31/2016		<0.001015
10/18/2016		
10/19/2016		<0.001015
1/31/2017		0.000746 (J)
2/1/2017		
5/2/2017		<0.001015
5/3/2017		
6/6/2017		<0.001015
6/7/2017		
1/22/2018		<0.001015
1/23/2018		
1/24/2018		
5/1/2018		<0.001015
5/2/2018		
11/27/2018		<0.001015
11/28/2018		
1/8/2019		
5/29/2019		<0.001015
5/30/2019		
9/30/2019		
10/1/2019		<0.001015
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.001015
9/1/2020		
9/2/2020	<0.001015	<0.001015
5/11/2021		<0.001015
5/18/2021		
5/19/2021		
5/25/2021	<0.001015	
10/26/2021	<0.001015	<0.001015
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.001015	
5/25/2022		<0.001015
11/1/2022	<0.001015	<0.001015
11/2/2022		

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.001015							<0.001015
4/19/2016		<0.001015							<0.001015
6/8/2016		<0.001015							<0.001015
8/31/2016		<0.001015							<0.001015
10/19/2016		<0.001015							<0.001015
1/31/2017		0.000769 (J)							0.000739 (J)
5/2/2017		<0.001015							<0.001015
6/6/2017		<0.001015							<0.001015
1/23/2018		<0.001015							<0.001015
1/24/2018									<0.001015
5/1/2018		<0.001015							<0.001015
11/27/2018		<0.001015							<0.001015
1/8/2019								0.00125 (J)	
3/20/2019						0.00117 (J)			
5/29/2019		<0.001015							<0.001015
7/31/2019	0.00094 (J)			0.000878 (J)			0.00152 (J)		
10/1/2019	<0.001015	<0.001015				<0.001015	<0.001015		<0.001015
10/2/2019				<0.001015				<0.001015	
3/30/2020								<0.001015	
3/31/2020		<0.001015							<0.001015
4/1/2020				<0.001015		<0.001015			<0.001015
8/31/2020									<0.001015
9/1/2020	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
9/2/2020		<0.001015	<0.001015						
5/17/2021				<0.001015					
5/18/2021					<0.001015			<0.001015	<0.001015
5/19/2021		<0.001015	<0.001015			<0.001015			
5/25/2021	<0.001015						<0.001015		
10/25/2021				<0.001015	<0.001015	<0.001015	<0.001015		
10/26/2021	<0.001015		<0.001015						
11/1/2021		<0.001015						<0.001015	<0.001015
5/23/2022						<0.001015			
5/24/2022	<0.001015						<0.001015	<0.001015	<0.001015
5/25/2022		<0.001015	<0.001015	<0.001015	<0.001015				
10/31/2022				<0.001015	<0.001015	<0.001015	<0.001015		
11/1/2022		<0.001015	<0.001015					<0.001015	
11/2/2022	<0.001015								<0.001015

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.00113 (J)	
10/1/2019	<0.001015	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.001015	
8/31/2020		
9/1/2020	<0.001015	<0.001015
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.001015	<0.001015
5/25/2021		
10/25/2021		
10/26/2021	<0.001015	
11/1/2021		<0.001015
5/23/2022	<0.001015	
5/24/2022		<0.001015
5/25/2022		
10/31/2022	<0.001015	
11/1/2022		<0.001015
11/2/2022		

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.001015	<0.001015	
3/2/2016						<0.001015			
4/19/2016						<0.001015	<0.001015		
4/20/2016								<0.001015	
6/7/2016						0.000606 (J)	0.000869 (J)	<0.001015	
8/30/2016							<0.001015	<0.001015	
8/31/2016						<0.001015			
10/18/2016								<0.001015	
10/19/2016						<0.001015	<0.001015		
1/31/2017						0.000637 (J)	0.00086 (J)	0.000765 (J)	
5/2/2017						<0.001015	<0.001015		
5/3/2017								<0.001015	
6/6/2017						<0.001015	<0.001015		
6/7/2017								<0.001015	
1/24/2018						<0.001015	<0.001015	<0.001015	
5/1/2018						<0.001015	<0.001015		
5/2/2018								<0.001015	
11/27/2018						<0.001015	<0.001015	<0.001015	
11/28/2018									
1/8/2019				0.00116 (J)					0.00207 (J)
5/29/2019						<0.001015	<0.001015	<0.001015	
7/31/2019	0.00117 (J)	0.000964 (J)							
9/30/2019									
10/1/2019	<0.001015	<0.001015				<0.001015	<0.001015	<0.001015	
10/2/2019				<0.001015					<0.001015
3/30/2020									
3/31/2020				<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
4/1/2020		<0.001015							
9/1/2020	<0.001015	<0.001015	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
9/2/2020				<0.001015	<0.001015				
5/17/2021			<0.001015						
5/18/2021						<0.001015	<0.001015		
5/24/2021		<0.001015			<0.001015				
5/25/2021	<0.001015			<0.001015					
10/26/2021	<0.001015	<0.001015	<0.001015	<0.001015					
10/27/2021									
11/1/2021						<0.001015	<0.001015		
11/2/2021					<0.001015			<0.001015	<0.001015
5/24/2022	<0.001015			<0.001015					
5/25/2022		<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/31/2022	<0.001015				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/1/2022		<0.001015	<0.001015			<0.001015			
11/2/2022				<0.001015					

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.001015	<0.001015
3/2/2016		
4/19/2016	<0.001015	
4/20/2016		<0.001015
6/7/2016	<0.001015	<0.001015
8/30/2016	<0.001015	
8/31/2016		<0.001015
10/18/2016		
10/19/2016	<0.001015	<0.001015
1/31/2017	0.000852 (J)	0.00107 (J)
5/2/2017		
5/3/2017	<0.001015	<0.001015
6/6/2017		
6/7/2017	<0.001015	<0.001015
1/24/2018	<0.001015	<0.001015
5/1/2018		
5/2/2018	<0.001015	<0.001015
11/27/2018		
11/28/2018	<0.001015	<0.001015
1/8/2019		
5/29/2019	<0.001015	<0.001015
7/31/2019		
9/30/2019		<0.001015
10/1/2019	<0.001015	
10/2/2019		
3/30/2020		<0.001015
3/31/2020	<0.001015	
4/1/2020		
9/1/2020		
9/2/2020	<0.001015	<0.001015
5/17/2021	<0.001015	
5/18/2021		<0.001015
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		<0.001015
11/1/2021		
11/2/2021	<0.001015	
5/24/2022		<0.001015
5/25/2022	<0.001015	
10/31/2022	<0.001015	<0.001015
11/1/2022		
11/2/2022		

Time Series

Constituent: Antimony (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.001015	<0.001015	<0.001015	0.000606 (J)	
3/1/2016		<0.001015		<0.001015					
4/19/2016					<0.001015	<0.001015	<0.001015	<0.001015	
4/20/2016		<0.001015		<0.001015					
6/6/2016					<0.001015			<0.001015	
6/7/2016		<0.001015				<0.001015	<0.001015		
6/8/2016				<0.001015					
8/30/2016		<0.001015			<0.001015	<0.001015	<0.001015	<0.001015	
8/31/2016				<0.001015					
10/18/2016		<0.001015			<0.001015	<0.001015	<0.001015	<0.001015	
10/19/2016				<0.001015					
1/31/2017		0.00074 (J)			0.000925 (J)	0.000898 (J)	0.000911 (J)	0.000928 (J)	
2/1/2017				0.000738 (J)					
5/2/2017					<0.001015	<0.001015	<0.001015	<0.001015	
5/3/2017		<0.001015		<0.001015					
6/6/2017					<0.001015	<0.001015	<0.001015	<0.001015	
6/7/2017		<0.001015		<0.001015					
1/23/2018				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
1/24/2018		<0.001015							
5/1/2018						<0.001015	<0.001015	<0.001015	
5/2/2018		<0.001015		<0.001015	<0.001015				
11/26/2018								<0.001015	
11/27/2018		<0.001015			<0.001015	<0.001015	<0.001015		
11/28/2018				<0.001015					
1/9/2019	0.000861 (J)		<0.001015						
5/28/2019								<0.001015	
5/29/2019		<0.001015			<0.001015	<0.001015	<0.001015		
5/30/2019				<0.001015					
9/30/2019		<0.001015		<0.001015					
10/1/2019	<0.001015		<0.001015						
10/2/2019					<0.001015	<0.001015	<0.001015	<0.001015	
3/30/2020	<0.001015	<0.001015	<0.001015						
3/31/2020				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
9/2/2020	<0.001015	<0.001015	<0.001015	<0.001015					<0.001015
9/8/2020								<0.001015	
9/9/2020					<0.001015	<0.001015	<0.001015		
5/11/2021		<0.001015				<0.001015	<0.001015	<0.001015	
5/12/2021					<0.001015				
5/18/2021	<0.001015		<0.001015	<0.001015					
5/24/2021									<0.001015
10/18/2021							<0.001015	<0.001015	
10/19/2021					<0.001015	<0.001015			
10/26/2021		<0.001015	<0.001015						
10/27/2021	<0.001015			<0.001015					
11/2/2021									<0.001015
5/23/2022			<0.001015						
5/24/2022	<0.001015	<0.001015		<0.001015					
5/25/2022									<0.001015
5/31/2022					<0.001015	<0.001015	<0.001015	<0.001015	
10/31/2022	<0.001015		<0.001015	<0.001015					
11/1/2022					<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/2/2022		<0.001015							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		0.0264		0.01					
3/2/2016	0.076				0.0215		0.0115		0.0101
4/19/2016	0.0973								
4/20/2016		0.0303		0.0127	0.0214		0.0123		0.0119
6/8/2016	0.0605	0.0306		0.0136	0.0221		0.0121		0.0119
8/30/2016									0.0127
8/31/2016	0.0687	0.0304		0.0149	0.0223		0.0127		
10/18/2016									0.0136
10/19/2016	0.0701	0.0314		0.0149	0.0227		0.0131		
1/31/2017	0.0669						0.0131		0.0124
2/1/2017		0.0274		0.0151	0.0215				
5/2/2017	0.0672								0.0131
5/3/2017		0.03		0.0155	0.0227		0.014		
6/6/2017	0.0527								0.0129
6/7/2017		0.0303		0.0145	0.0211		0.0141		
1/22/2018							0.0149		
1/23/2018		0.0362		0.0154	0.0227				0.0148
1/24/2018	0.07								
5/1/2018	0.0777								
5/2/2018		0.0433		0.0158	0.0239		0.0175		0.0156
11/27/2018									0.0145
11/28/2018	0.0677	0.0536		0.014	0.0216		0.0141		
1/8/2019			<0.005			0.0112			
5/29/2019	0.0555			0.0132	0.0215		0.0138		0.014
5/30/2019		0.0671							
7/31/2019		0.0649							
9/30/2019		0.0704		0.0145					
10/1/2019	0.0635		<0.005		0.0221		0.0144		0.0152
10/2/2019						0.022			
3/30/2020	0.0557								
3/31/2020		0.0702	<0.005	0.0158	0.0246	0.025	0.0154		0.0177
4/1/2020									
9/1/2020	0.0811	0.0763	<0.005	0.0165	0.0246	0.0257	0.0148		
9/2/2020								0.00708	0.0174
5/11/2021		0.0762							
5/18/2021	0.0687		0.000356		0.0237	0.0251			
5/19/2021				0.0166			0.014	0.00877	
5/25/2021									0.0172
10/26/2021							0.013	0.0103	
10/27/2021		0.0705	0.00033						0.0174
11/1/2021	0.0694				0.0245	0.0256			
11/2/2021				0.0161					
5/23/2022				0.0142	0.0245	0.0257			
5/24/2022	0.0767	0.0775	0.00036				0.0128		
5/25/2022								0.0102	0.0183
11/1/2022			0.000299	0.0148	0.0226	0.0241	0.0208	0.00887	0.0174
11/2/2022	0.0682	0.0742							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.0128
4/19/2016		0.0157
4/20/2016		
6/8/2016		0.0168
8/30/2016		
8/31/2016		0.0168
10/18/2016		
10/19/2016		0.0178
1/31/2017		0.0164
2/1/2017		
5/2/2017		0.0172
5/3/2017		
6/6/2017		0.0158
6/7/2017		
1/22/2018		0.0173
1/23/2018		
1/24/2018		
5/1/2018		0.0181
5/2/2018		
11/27/2018		0.0158
11/28/2018		
1/8/2019		
5/29/2019		0.0148
5/30/2019		
7/31/2019		
9/30/2019		
10/1/2019		0.017
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.0183
9/1/2020		
9/2/2020	0.00433 (J)	0.0206
5/11/2021		0.0184
5/18/2021		
5/19/2021		
5/25/2021	0.00324	
10/26/2021	0.0041	0.0186
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.00572	
5/25/2022		0.0176
11/1/2022	0.0057	0.0177
11/2/2022		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		0.0102							0.00263 (J)
4/19/2016		0.0103							0.00247 (J)
6/8/2016		0.0105							0.0023 (J)
8/31/2016		0.0117							0.00237 (J)
10/19/2016		0.0108							0.00241 (J)
1/31/2017		0.0102							0.00185 (J)
5/2/2017		0.0102							0.00194 (J)
6/6/2017		0.00982							0.00175 (J)
1/23/2018		0.0151							
1/24/2018									0.00158 (J)
5/1/2018		0.0114							0.00166 (J)
11/27/2018		0.0108							0.00144 (J)
1/8/2019								0.00109 (J)	
3/20/2019						0.00831			
5/29/2019		0.0106							0.00132 (J)
7/31/2019	0.0174			0.0221			0.00118 (J)		
10/1/2019	0.0243	0.0138				0.0137	<0.005		0.0014 (J)
10/2/2019				0.0251				0.00157 (J)	
3/30/2020								0.00152 (J)	
3/31/2020		0.012							0.00149 (J)
4/1/2020				0.0208		0.00937			
8/31/2020									0.00176 (J)
9/1/2020	0.0401			0.0371	0.00472 (J)	0.015	0.00101 (J)	0.00179 (J)	
9/2/2020		0.0137	0.0012 (J)						
5/17/2021				0.0329					
5/18/2021					0.00546			0.00144	0.00159
5/19/2021		0.0118	0.00123			0.0147			
5/25/2021	0.0233						0.0015		
10/25/2021				0.0373	0.00162	0.0156	0.00134		
10/26/2021	0.0248		0.00105						
11/1/2021		0.0151						0.00086	0.00191
5/23/2022						0.0143			
5/24/2022	0.0333						0.00099	0.00079	0.00115
5/25/2022		0.0134	0.00112	0.03	0.00192				
10/31/2022				0.0281	0.00144	0.00934	0.000896		
11/1/2022		0.0161	0.00102					0.000464	
11/2/2022	0.0403								0.00151

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.0112	
10/1/2019	0.013	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.00508	
8/31/2020		
9/1/2020	0.0172	0.00845
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.0132	0.0148
5/25/2021		
10/25/2021		
10/26/2021	0.0133	
11/1/2021		0.0182
5/23/2022	0.0136	
5/24/2022		0.0188
5/25/2022		
10/31/2022	0.0131	
11/1/2022		0.0186
11/2/2022		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.0002	0.0277	
3/2/2016						<0.0002			
4/19/2016						<0.0002	<0.0002		
4/20/2016								0.0307	
6/7/2016						<0.0002	<0.0002	0.0308	
8/30/2016							<0.0002	0.033	
8/31/2016						<0.0002			
10/18/2016								0.0296	
10/19/2016						<0.0002	<0.0002		
1/31/2017						<0.0002	<0.0002	0.0264	
5/2/2017						<0.0002	<0.0002		
5/3/2017								0.0309	
6/6/2017						<0.0002	<0.0002		
6/7/2017								0.0283	
1/24/2018						<0.0002	<0.0002	0.0282	
5/1/2018						<0.0002	<0.0002		
5/2/2018								0.0315	
11/27/2018						<0.0002	<0.0002	0.0283	
11/28/2018									
1/8/2019				0.0306					<0.005
5/29/2019						<0.0002	<0.0002	0.0301	
7/31/2019	0.0225	0.0132							
9/30/2019									
10/1/2019	0.0225	0.013				<0.0002	<0.0002	0.0307	
10/2/2019				0.0673					<0.005
3/30/2020									
3/31/2020				0.0729		<0.0002	<0.0002	0.0329	<0.005
4/1/2020		0.00689							
9/1/2020	0.0217	0.0226	<0.005			<0.0002	<0.0002	0.0372	<0.005
9/2/2020				0.0783	<0.005				
5/17/2021			0.00119						
5/18/2021						<0.0002	0.000125 (J)		
5/24/2021		0.0133			8.73E-05 (J)				
5/25/2021	0.0191			0.0693					
10/26/2021	0.0202	0.00807	0.00119	0.0752					
10/27/2021									
11/1/2021						<0.0002	0.0002		
11/2/2021					0.00016 (J)			0.0357	0.00101
5/24/2022	0.0197			0.0718					
5/25/2022		0.00518	0.00149		0.0002 (J)	<0.0002	<0.0002	0.0316	0.00017 (J)
10/31/2022	0.0183				0.000176 (J)		9.9E-05 (J)	0.0292	0.000618
11/1/2022		0.00463	0.00195			0.000102 (J)			
11/2/2022				0.0664					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	0.00142 (J)	0.0166
3/2/2016		
4/19/2016	0.00138 (J)	
4/20/2016		0.02
6/7/2016	<0.000203	0.0223
8/30/2016	<0.000203	
8/31/2016		0.0231
10/18/2016		
10/19/2016	<0.000203	0.0244
1/31/2017	<0.000203	0.0197
5/2/2017		
5/3/2017	<0.000203	0.0212
6/6/2017		
6/7/2017	<0.000203	0.0203
1/24/2018	<0.000203	0.0214
5/1/2018		
5/2/2018	<0.000203	0.0218
11/27/2018		
11/28/2018	<0.000203	0.0209
1/8/2019		
5/29/2019	<0.000203	0.0178
7/31/2019		
9/30/2019		0.0217
10/1/2019	<0.000203	
10/2/2019		
3/30/2020		0.0215
3/31/2020	<0.000203	
4/1/2020		
9/1/2020		
9/2/2020	<0.000203	0.0234
5/17/2021	0.000103 (J)	
5/18/2021		0.0215
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		0.0236
11/1/2021		
11/2/2021	0.0001 (J)	
5/24/2022		0.0197
5/25/2022	<0.000203	
10/31/2022	<0.000203	0.00873
11/1/2022		
11/2/2022		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.005	<0.005	<0.000203	<0.005	
3/1/2016		0.036		0.0322					
4/19/2016					<0.005	<0.005	<0.000203	<0.005	
4/20/2016		0.0399		0.0354					
6/6/2016					<0.005			<0.005	
6/7/2016		0.0401				<0.005	<0.000203		
6/8/2016				0.0385					
8/30/2016		0.0387			<0.005	<0.005	<0.000203	<0.005	
8/31/2016				0.0404					
10/18/2016		0.0394			<0.005	<0.005	<0.000203	<0.005	
10/19/2016				0.0412					
1/31/2017		0.0408			<0.005	<0.005	<0.000203	<0.005	
2/1/2017				0.0374					
5/2/2017					<0.005	<0.005	<0.000203	<0.005	
5/3/2017		0.0416		0.0444					
6/6/2017					<0.005	<0.005	<0.000203	<0.005	
6/7/2017		0.0395		0.0423					
1/23/2018				0.0435	<0.005	<0.005	<0.000203	<0.005	
1/24/2018		0.0536							
5/1/2018						<0.005	<0.000203	<0.005	
5/2/2018		0.0572		0.0437	<0.005				
11/26/2018								<0.005	
11/27/2018		0.0536			<0.005	<0.005	<0.000203		
11/28/2018				0.0422					
1/9/2019	<0.005		0.00121 (J)						
5/28/2019								<0.005	
5/29/2019		0.0482			<0.005	<0.005	<0.000203		
5/30/2019				0.0349					
9/30/2019		0.0514		0.0391					
10/1/2019	0.00278 (J)		0.00243 (J)						
10/2/2019					<0.005	<0.005	<0.000203	<0.005	
3/30/2020	0.005	0.0589	0.00275 (J)						
3/31/2020				0.0393	<0.005	<0.005	<0.000203	0.0017 (J)	
9/2/2020	0.0024 (J)	0.0629	0.00346 (J)	0.0432					<0.000203
9/8/2020								<0.005	
9/9/2020					<0.005	<0.005	<0.000203		
5/11/2021		0.0659				0.000136 (J)	<0.000203	0.000217	
5/12/2021					0.000336				
5/18/2021	0.00242		0.00398	0.0435					
5/24/2021									<0.000203
10/18/2021							9E-05 (J)	0.00019 (J)	
10/19/2021					0.00035	0.00012 (J)			
10/26/2021		0.0668	0.0048						
10/27/2021	0.0027			0.0468					
11/2/2021									<0.000203
5/23/2022			0.00386						
5/24/2022	0.00218	0.0583		0.0404					
5/25/2022									<0.000203
5/31/2022					0.00024	9E-05 (J)	<0.000203	0.0002	
10/31/2022	0.000983		0.00136	0.023			<0.000203	0.0002	
11/1/2022					0.000345	0.000379	<0.000203	0.000115 (J)	<0.000203
11/2/2022		0.0415							

Time Series

Constituent: Barium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		0.0634		0.122					
3/2/2016	0.219				0.0815		0.0947		0.0491
4/19/2016	0.201								
4/20/2016		0.0622		0.11	0.0692		0.0758		0.049
6/8/2016	0.274	0.0642		0.105	0.0763		0.071		0.0627
8/30/2016									0.0635
8/31/2016	0.296	0.063		0.102	0.0741		0.0722		
10/18/2016									0.0603
10/19/2016	0.281	0.0577		0.0953	0.0727		0.0707		
1/31/2017	0.211						0.0686		0.0533
2/1/2017		0.0607		0.0917	0.0701				
5/2/2017	0.29								0.0616
5/3/2017		0.0665		0.0951	0.078		0.0756		
6/6/2017	0.25								0.0585
6/7/2017		0.0632		0.0864	0.0682		0.0695		
1/22/2018							0.0688		
1/23/2018		0.0673		0.0868	0.0744				0.0608
1/24/2018	0.289								
5/1/2018	0.28								
5/2/2018		0.0752		0.0816	0.0814		0.0806		0.0614
11/27/2018									0.0589
11/28/2018	0.271	0.066		0.0796	0.0788		0.0697		
1/8/2019			0.149			0.144			
5/29/2019	0.29			0.0653	0.0769		0.0704		0.0617
5/30/2019		0.063							
9/30/2019		0.0669		0.0759					
10/1/2019	0.293		0.167		0.0795		0.0696		0.0605
10/2/2019						0.101			
3/30/2020	0.279								
3/31/2020		0.0727	0.184	0.0842	0.0851	0.0939	0.0728		0.0619
4/1/2020									
9/1/2020	0.33	0.078	0.203	0.0923	0.0827	0.102	0.0722		
9/2/2020								0.109	0.0687
5/11/2021		0.0757							
5/18/2021	0.339		0.212		0.0902	0.111			
5/19/2021				0.112			0.0817	0.114	
5/25/2021									0.0745
10/26/2021							0.0667	0.0827	
10/27/2021		0.0638	0.182						0.0651
11/1/2021	0.322				0.0823	0.103			
11/2/2021				0.0894					
5/23/2022				0.0691	0.0802	0.103			
5/24/2022	0.343	0.0618	0.188				0.0723		
5/25/2022								0.0888	0.0693
11/1/2022			0.199	0.078	0.079	0.101	0.0783	0.0987	0.0681
11/2/2022	0.279	0.0617							

Time Series

Constituent: Barium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.0468
4/19/2016		0.043
4/20/2016		
6/8/2016		0.0465
8/30/2016		
8/31/2016		0.0464
10/18/2016		
10/19/2016		0.0481
1/31/2017		0.0427
2/1/2017		
5/2/2017		0.0473
5/3/2017		
6/6/2017		0.0437
6/7/2017		
1/22/2018		0.0501
1/23/2018		
1/24/2018		
5/1/2018		0.0575
5/2/2018		
11/27/2018		0.0557
11/28/2018		
1/8/2019		
5/29/2019		0.0562
5/30/2019		
9/30/2019		
10/1/2019		0.0628
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.0697
9/1/2020		
9/2/2020	0.0766	0.0736
5/11/2021		0.0762
5/18/2021		
5/19/2021		
5/25/2021	0.0729	
10/26/2021	0.0653	0.0784
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.067	
5/25/2022		0.0846
11/1/2022	0.0617	0.0745
11/2/2022		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.0928	
10/1/2019	0.0913	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.119	
8/31/2020		
9/1/2020	0.11	0.115
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.111	0.107
5/25/2021		
10/25/2021		
10/26/2021	0.0936	
11/1/2021		0.0883
5/23/2022	0.0963	
5/24/2022		0.0906
5/25/2022		
10/31/2022	0.0954	
11/1/2022		0.0871
11/2/2022		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							0.018	0.136	
3/2/2016						0.0306			
4/19/2016						0.0292	0.0166		
4/20/2016								0.132	
6/7/2016						0.0318	0.0271	0.141	
8/30/2016							0.0312	0.136	
8/31/2016						0.0324			
10/18/2016								0.125	
10/19/2016						0.0313	0.0443		
1/31/2017						0.0306	0.0231	0.125	
5/2/2017						0.0332	0.0241		
5/3/2017								0.146	
6/6/2017						0.0275	0.0276		
6/7/2017								0.126	
1/24/2018						0.0317	0.0293	0.127	
5/1/2018						0.0356	0.0205		
5/2/2018								0.154	
11/27/2018						0.0339	0.0321	0.139	
11/28/2018									
1/8/2019				0.294					0.0372
5/29/2019						0.037	0.0203	0.146	
7/31/2019	0.185	0.162							
9/30/2019									
10/1/2019	0.213	0.175				0.0356	0.0207	0.138	
10/2/2019				0.229					0.0338
3/30/2020									
3/31/2020				0.243		0.0393	0.0193	0.15	0.0313
4/1/2020		0.0629							
9/1/2020	0.234	0.182	0.00933 (J)			0.038	0.0131	0.154	0.0399
9/2/2020				0.26	0.0204				
5/17/2021			0.0094						
5/18/2021						0.0406	0.0225		
5/24/2021		0.208			0.0206				
5/25/2021	0.261			0.26					
10/26/2021	0.202	0.188	0.00766	0.238					
10/27/2021									
11/1/2021						0.0371	0.0217		
11/2/2021					0.0203			0.159	0.0368
5/24/2022	0.215			0.245					
5/25/2022		0.174	0.00735		0.0197	0.0494	0.0399	0.155	0.0574
10/31/2022	0.2				0.0198		0.118	0.105	0.0514
11/1/2022		0.171	0.036			0.0289			
11/2/2022				0.23					

Time Series

Constituent: Barium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	0.0278	0.0519
3/2/2016		
4/19/2016	0.0242	
4/20/2016		0.0517
6/7/2016	0.0223	0.0577
8/30/2016	0.0242	
8/31/2016		0.0614
10/18/2016		
10/19/2016	0.024	0.0618
1/31/2017	0.0248	0.0576
5/2/2017		
5/3/2017	0.0268	0.0601
6/6/2017		
6/7/2017	0.0256	0.054
1/24/2018	0.0254	0.0568
5/1/2018		
5/2/2018	0.0276	0.063
11/27/2018		
11/28/2018	0.0231	0.0654
1/8/2019		
5/29/2019	0.0244	0.059
7/31/2019		
9/30/2019		0.0648
10/1/2019	0.0257	
10/2/2019		
3/30/2020		0.059
3/31/2020	0.0244	
4/1/2020		
9/1/2020		
9/2/2020	0.0282	0.0745
5/17/2021	0.0305	
5/18/2021		0.07
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		0.0664
11/1/2021		
11/2/2021	0.0286	
5/24/2022		0.0717
5/25/2022	0.0268	
10/31/2022	0.0263	0.0188
11/1/2022		
11/2/2022		

Time Series

Constituent: Barium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					0.117	0.111	0.0862	0.0973	
3/1/2016		0.142		0.114					
4/19/2016					0.099	0.0875	0.0718	0.0802	
4/20/2016		0.143		0.114					
6/6/2016					0.107			0.0862	
6/7/2016		0.145				0.0979	0.0754		
6/8/2016				0.128					
8/30/2016		0.147			0.106	0.108	0.0768	0.0841	
8/31/2016				0.123					
10/18/2016		0.14			0.102	0.103	0.0727	0.0715	
10/19/2016				0.118					
1/31/2017		0.134			0.0944	0.109	0.0698	0.0825	
2/1/2017				0.104					
5/2/2017					0.0868	0.125	0.0723	0.0777	
5/3/2017		0.145		0.126					
6/6/2017					0.0799	0.108	0.07	0.078	
6/7/2017		0.128		0.111					
1/23/2018				0.115	0.0884	0.153	0.0747	0.0825	
1/24/2018		0.129							
5/1/2018						0.167	0.0877	0.102	
5/2/2018		0.149		0.125	0.137				
11/26/2018								0.0994	
11/27/2018		0.143			0.157	0.158	0.0804		
11/28/2018				0.119					
1/9/2019	0.112		0.337						
5/28/2019								0.102	
5/29/2019		0.138			0.166	0.172	0.0831		
5/30/2019				0.112					
9/30/2019		0.138		0.117					
10/1/2019	0.0541		0.264						
10/2/2019					0.129	0.183	0.089	0.111	
3/30/2020	0.0519	0.141	0.264						
3/31/2020				0.119	0.176	0.171	0.0927	0.129	
9/2/2020	0.0648	0.151	0.289	0.124					0.0111
9/8/2020								0.125	
9/9/2020					0.124	0.172	0.0919		
5/11/2021		0.147				0.165	0.0981	0.125	
5/12/2021					0.123				
5/18/2021	0.0805		0.299	0.125					
5/24/2021									0.00981
10/18/2021							0.0935	0.124	
10/19/2021					0.103	0.145			
10/26/2021		0.136	0.282						
10/27/2021	0.0684			0.117					
11/2/2021									0.00907
5/23/2022			0.277						
5/24/2022	0.0803	0.142		0.117					
5/25/2022									0.00993
5/31/2022					0.1	0.153	0.0992	0.129	
10/31/2022	0.0179		0.277	0.111					
11/1/2022					0.0804	0.145	0.0963	0.11	0.0106
11/2/2022		0.149							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.001015		<0.001015					
3/2/2016	<0.001015				<0.001015		<0.001015		<0.001015
4/19/2016	<0.001015								
4/20/2016		<0.001015		<0.001015	<0.001015		<0.001015		<0.001015
6/8/2016	<0.001015	<0.001015		<0.001015	<0.001015		<0.001015		<0.001015
8/30/2016									<0.001015
8/31/2016	<0.001015	<0.001015		<0.001015	<0.001015		<0.001015		
10/18/2016									<0.001015
10/19/2016	<0.001015	<0.001015		<0.001015	<0.001015		<0.001015		
1/31/2017	<0.001015						<0.001015		<0.001015
2/1/2017		<0.001015		<0.001015	<0.001015				
5/2/2017	<0.001015								<0.001015
5/3/2017		<0.001015		<0.001015	<0.001015		<0.001015		
6/6/2017	<0.001015								<0.001015
6/7/2017		<0.001015		<0.001015	<0.001015		0.00103 (J)		
1/22/2018							<0.001015		
1/23/2018		<0.001015		<0.001015	<0.001015				<0.001015
1/24/2018	<0.001015								
5/1/2018	<0.001015								
5/2/2018		<0.001015		<0.001015	<0.001015		<0.001015		<0.001015
11/27/2018									<0.001015
11/28/2018	<0.001015	<0.001015		<0.001015	<0.001015		<0.001015		
1/8/2019			<0.001015			<0.001015			
5/29/2019	<0.001015			<0.001015	<0.001015		<0.001015		<0.001015
5/30/2019		<0.001015							
9/30/2019		<0.001015		<0.001015					
10/1/2019	<0.001015		<0.001015		<0.001015		<0.001015		<0.001015
10/2/2019						<0.001015			
3/30/2020	<0.001015								
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		<0.001015
4/1/2020									
9/1/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015		
9/2/2020								<0.001015	<0.001015
5/11/2021		<0.001015							
5/18/2021	<0.001015		<0.001015		<0.001015	<0.001015			
5/19/2021				<0.001015			<0.001015	<0.001015	
5/25/2021									<0.001015
10/26/2021							<0.001015	<0.001015	
10/27/2021		<0.001015	<0.001015						<0.001015
11/1/2021	<0.001015				<0.001015	<0.001015			
11/2/2021				<0.001015					
5/23/2022				<0.001015	<0.001015	<0.001015			
5/24/2022	<0.001015	<0.001015	<0.001015				<0.001015		
5/25/2022								<0.001015	<0.001015
11/1/2022			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/2/2022	<0.001015	<0.001015							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.001015
4/19/2016		<0.001015
4/20/2016		
6/8/2016		<0.001015
8/30/2016		
8/31/2016		<0.001015
10/18/2016		
10/19/2016		<0.001015
1/31/2017		<0.001015
2/1/2017		
5/2/2017		<0.001015
5/3/2017		
6/6/2017		<0.001015
6/7/2017		
1/22/2018		<0.001015
1/23/2018		
1/24/2018		
5/1/2018		<0.001015
5/2/2018		
11/27/2018		<0.001015
11/28/2018		
1/8/2019		
5/29/2019		<0.001015
5/30/2019		
9/30/2019		
10/1/2019		<0.001015
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.001015
9/1/2020		
9/2/2020	<0.001015	<0.001015
5/11/2021		<0.001015
5/18/2021		
5/19/2021		
5/25/2021	<0.001015	
10/26/2021	<0.001015	<0.001015
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.001015	
5/25/2022		<0.001015
11/1/2022	<0.001015	<0.001015
11/2/2022		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.001015							<0.001015
4/19/2016		<0.001015							<0.001015
6/8/2016		<0.001015							<0.001015
8/31/2016		<0.001015							<0.001015
10/19/2016		<0.001015							<0.001015
1/31/2017		<0.001015							<0.001015
5/2/2017		<0.001015							<0.001015
6/6/2017		<0.001015							<0.001015
1/23/2018		<0.001015							<0.001015
1/24/2018									<0.001015
5/1/2018		<0.001015							<0.001015
11/27/2018		<0.001015							<0.001015
1/8/2019								<0.001015	
3/20/2019						<0.001015			
5/29/2019		<0.001015							<0.001015
7/31/2019	<0.001015			<0.001015			<0.001015		
10/1/2019	<0.001015	<0.001015				<0.001015	<0.001015		<0.001015
10/2/2019				<0.001015				<0.001015	
3/30/2020								<0.001015	
3/31/2020		<0.001015							<0.001015
4/1/2020				<0.001015		<0.001015			
8/31/2020									<0.001015
9/1/2020	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
9/2/2020		<0.001015	<0.001015						
5/17/2021				<0.001015					
5/18/2021					<0.001015			<0.001015	<0.001015
5/19/2021		<0.001015	<0.001015			<0.001015			
5/25/2021	<0.001015						<0.001015		
10/25/2021				<0.001015	<0.001015	<0.001015	<0.001015		
10/26/2021	<0.001015		<0.001015						
11/1/2021		<0.001015						<0.001015	<0.001015
5/23/2022						<0.001015			
5/24/2022	<0.001015						<0.001015	<0.001015	<0.001015
5/25/2022		<0.001015	<0.001015	<0.001015	<0.001015				
10/31/2022				<0.001015	<0.001015	<0.001015	<0.001015		
11/1/2022		<0.001015	<0.001015					<0.001015	
11/2/2022	<0.001015								<0.001015

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.001015	
10/1/2019	<0.001015	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.001015	
8/31/2020		
9/1/2020	<0.001015	<0.001015
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.001015	<0.001015
5/25/2021		
10/25/2021		
10/26/2021	<0.001015	
11/1/2021		<0.001015
5/23/2022	<0.001015	
5/24/2022		<0.001015
5/25/2022		
10/31/2022	<0.001015	
11/1/2022		<0.001015
11/2/2022		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.00102	<0.001015	
3/2/2016						<0.001015			
4/19/2016						<0.001015	<0.00102		
4/20/2016								<0.001015	
6/7/2016						<0.001015	<0.00102	<0.001015	
8/30/2016							<0.00102	<0.001015	
8/31/2016						<0.001015			
10/18/2016								<0.001015	
10/19/2016						<0.001015	<0.00102		
1/31/2017						<0.001015	<0.00102	<0.001015	
5/2/2017						<0.001015	<0.00102		
5/3/2017								<0.001015	
6/6/2017						<0.001015	<0.00102		
6/7/2017								<0.001015	
1/24/2018						<0.001015	<0.00102	<0.001015	
5/1/2018						<0.001015	<0.00102		
5/2/2018								<0.001015	
11/27/2018						<0.001015	0.00071 (J)	<0.001015	
11/28/2018									
1/8/2019				<0.001015					<0.001015
5/29/2019						<0.001015	<0.00102	<0.001015	
7/31/2019	<0.001015	<0.001015							
9/30/2019									
10/1/2019	<0.001015	<0.001015				<0.001015	<0.00102	<0.001015	
10/2/2019				<0.001015					<0.001015
3/30/2020									
3/31/2020				<0.001015		<0.001015	<0.00102	<0.001015	<0.001015
4/1/2020		<0.001015							
9/1/2020	<0.001015	<0.001015	<0.001015			<0.001015	<0.00102	<0.001015	<0.001015
9/2/2020				<0.001015	<0.001015				
5/17/2021			<0.001015						
5/18/2021						<0.001015	<0.00102		
5/24/2021		<0.001015			<0.001015				
5/25/2021	<0.001015			<0.001015					
10/26/2021	<0.001015	<0.001015	<0.001015	<0.001015					
10/27/2021									
11/1/2021						<0.001015	<0.00102		
11/2/2021					<0.001015			<0.001015	<0.001015
5/24/2022	<0.001015			<0.001015					
5/25/2022		<0.001015	<0.001015		<0.001015	<0.001015	0.00065 (J)	<0.001015	<0.001015
10/31/2022	<0.001015				<0.001015		0.000451 (J)	<0.001015	<0.001015
11/1/2022		<0.001015	<0.001015			<0.001015			
11/2/2022				<0.001015					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.001015	<0.001015
3/2/2016		
4/19/2016	<0.001015	
4/20/2016		<0.001015
6/7/2016	<0.001015	<0.001015
8/30/2016	<0.001015	
8/31/2016		<0.001015
10/18/2016		
10/19/2016	<0.001015	<0.001015
1/31/2017	<0.001015	<0.001015
5/2/2017		
5/3/2017	<0.001015	<0.001015
6/6/2017		
6/7/2017	<0.001015	<0.001015
1/24/2018	<0.001015	<0.001015
5/1/2018		
5/2/2018	<0.001015	<0.001015
11/27/2018		
11/28/2018	<0.001015	<0.001015
1/8/2019		
5/29/2019	<0.001015	<0.001015
7/31/2019		
9/30/2019		<0.001015
10/1/2019	<0.001015	
10/2/2019		
3/30/2020		<0.001015
3/31/2020	<0.001015	
4/1/2020		
9/1/2020		
9/2/2020	<0.001015	<0.001015
5/17/2021	<0.001015	
5/18/2021		<0.001015
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		<0.001015
11/1/2021		
11/2/2021	<0.001015	
5/24/2022		<0.001015
5/25/2022	<0.001015	
10/31/2022	<0.001015	<0.001015
11/1/2022		
11/2/2022		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.001015	<0.00102	<0.001015	<0.001015	
3/1/2016		<0.001015		<0.001015					
4/19/2016					<0.001015	<0.00102	<0.001015	<0.001015	
4/20/2016		<0.001015		<0.001015					
6/6/2016					0.000612 (J)				<0.001015
6/7/2016		<0.001015				0.00093 (J)	<0.001015		
6/8/2016				<0.001015					
8/30/2016		<0.001015			<0.001015	<0.00102	<0.001015	<0.001015	
8/31/2016				<0.001015					
10/18/2016		<0.001015			<0.001015	<0.00102	<0.001015	<0.001015	
10/19/2016				<0.001015					
1/31/2017		<0.001015			<0.001015	<0.00102	<0.001015	<0.001015	
2/1/2017				<0.001015					
5/2/2017					0.00069 (J)	<0.00102	<0.001015	<0.001015	
5/3/2017		<0.001015		<0.001015					
6/6/2017					<0.001015	<0.00102	<0.001015	<0.001015	
6/7/2017		<0.001015		<0.001015					
1/23/2018				<0.001015	<0.001015	<0.00102	<0.001015	<0.001015	
1/24/2018		<0.001015							
5/1/2018						<0.00102	<0.001015	<0.001015	
5/2/2018		<0.001015		<0.001015	<0.001015				
11/26/2018									<0.001015
11/27/2018		<0.001015					<0.001015		
11/28/2018				<0.001015					
1/9/2019	<0.001015		<0.001015						
5/28/2019									<0.001015
5/29/2019		<0.001015			<0.001015	<0.00102	<0.001015		
5/30/2019				<0.001015					
9/30/2019		<0.001015		<0.001015					
10/1/2019	<0.001015		<0.001015						
10/2/2019					<0.001015	<0.00102	<0.001015	<0.001015	
3/30/2020	<0.001015	<0.001015	<0.001015						
3/31/2020				<0.001015	<0.001015	<0.00102	<0.001015	<0.001015	
9/2/2020	<0.001015	<0.001015	<0.001015	<0.001015					<0.001015
9/8/2020									<0.001015
9/9/2020					<0.001015	<0.00102	<0.001015	<0.001015	
5/11/2021		<0.001015				<0.00102	<0.001015	<0.001015	
5/12/2021					0.000694 (J)				
5/18/2021	<0.001015		<0.001015	<0.001015					
5/24/2021									<0.001015
10/18/2021							<0.001015	<0.001015	
10/19/2021					<0.001015	<0.00102			
10/26/2021		<0.001015	<0.001015						
10/27/2021	<0.001015			<0.001015					
11/2/2021									<0.001015
5/23/2022			<0.001015						
5/24/2022	<0.001015	<0.001015		<0.001015					
5/25/2022									<0.001015
5/31/2022					<0.001015	0.00041 (J)	<0.001015	<0.001015	
10/31/2022	<0.001015		<0.001015	<0.001015					
11/1/2022					<0.001015	0.000429 (J)	<0.001015	<0.001015	<0.001015
11/2/2022		<0.001015							

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		1.39		0.0482 (J)					
3/2/2016	2.03				0.0502 (J)		0.0328 (J)		0.0395 (J)
4/19/2016	2.2								
4/20/2016		1.51		0.059 (J)	0.0672 (J)		0.0434 (J)		0.0549 (J)
6/8/2016	1.61	1.62		0.0568 (J)	0.0659 (J)		0.0391 (J)		0.0593 (J)
8/30/2016									0.0534 (J)
8/31/2016	1.55	1.73		0.0651 (J)	0.065 (J)		0.0401 (J)		
10/18/2016									0.0597 (J)
10/19/2016	1.59	1.77		0.06 (J)	0.0721 (J)		0.0427 (J)		
1/31/2017	1.84						0.034 (J)		0.0479 (J)
2/1/2017		1.42		0.0638 (J)	0.06 (J)				
5/2/2017	1.73								0.0587 (J)
5/3/2017		1.52		0.0655 (J)	0.0768 (J)		0.0416 (J)		
6/6/2017	1.56								0.0428 (J)
6/7/2017		1.52		0.0468 (J)	0.0625 (J)		0.0277 (J)		
9/13/2017	1.87			0.0751 (J)	0.0926 (J)		0.044 (J)		0.0647 (J)
9/14/2017		1.96							
5/1/2018	1.81								
5/2/2018		2		0.0545 (J)	0.064 (J)		0.0393 (J)		0.0484 (J)
11/27/2018									0.0493 (J)
11/28/2018	1.8	2		0.0545 (J)	0.064 (J)		0.0417 (J)		
1/8/2019			0.677			0.0939 (J)			
5/29/2019	1.75			0.082 (J)	0.0952 (J)		0.0528 (J)		0.0682 (J)
5/30/2019		2.11							
9/30/2019		2.02		0.103					
10/1/2019	1.91		1.02		0.0967 (J)		0.0604 (J)		0.0701 (J)
10/2/2019						0.134			
3/30/2020	1.77								
3/31/2020		2.12	1.04	0.0815 (J)	0.0856 (J)	0.101	0.0505 (J)		0.0655 (J)
4/1/2020									
9/1/2020	2.11	2.02	1.06	0.104	0.115	0.149	0.0642 (J)		
9/2/2020								0.112	0.0789 (J)
5/11/2021		1.99							
5/18/2021	1.99		0.971		0.0927 (J)	0.118			
5/19/2021				0.0856 (J)			0.0604 (J)	0.0976 (J)	
5/25/2021									0.074 (J)
10/26/2021							0.0511 (J)	0.0888 (J)	
10/27/2021		2.39	0.933						0.0677 (J)
11/1/2021	2.02				0.0769 (J)	0.0962 (J)			
11/2/2021				0.0691 (J)					
5/23/2022				0.0558 (J)	0.0626 (J)	0.0765 (J)			
5/24/2022	2.08	2.34	0.938				0.0457 (J)		
5/25/2022								0.0852 (J)	0.0618 (J)
11/1/2022			1	0.0727 (J)	0.0777 (J)	0.0922 (J)	0.0445 (J)	0.0803 (J)	0.0519 (J)
11/2/2022	1.92	2.02							

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.0447 (J)
4/19/2016		0.0645 (J)
4/20/2016		
6/8/2016		0.0592 (J)
8/30/2016		
8/31/2016		0.0632 (J)
10/18/2016		
10/19/2016		0.0637 (J)
1/31/2017		0.0536 (J)
2/1/2017		
5/2/2017		0.0775 (J)
5/3/2017		
6/6/2017		0.0535 (J)
6/7/2017		
9/13/2017		0.0937 (J)
9/14/2017		
5/1/2018		0.0683 (J)
5/2/2018		
11/27/2018		0.0715 (J)
11/28/2018		
1/8/2019		
5/29/2019		0.116
5/30/2019		
9/30/2019		
10/1/2019		0.116
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.1
9/1/2020		
9/2/2020	0.407	0.148
5/11/2021		0.109
5/18/2021		
5/19/2021		
5/25/2021	0.43	
10/26/2021	0.393	0.0953 (J)
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.376	
5/25/2022		0.0826 (J)
11/1/2022	0.361	0.0712 (J)
11/2/2022		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		1.47							<0.1015
4/19/2016		1.53							<0.1015
6/8/2016		1.7							<0.1015
8/31/2016		1.68							<0.1015
10/19/2016		1.53							<0.1015
1/31/2017		1.51							<0.1015
5/2/2017		1.64							<0.1015
6/6/2017		1.57							<0.1015
9/12/2017									<0.1015
9/13/2017		2.18							
5/1/2018		1.57							<0.1015
11/27/2018		1.58							<0.1015
1/8/2019								0.0205 (J)	
3/20/2019						0.924			
5/29/2019		1.7							<0.1015
7/31/2019	0.0439 (J)			0.0782 (J)			0.835		
10/1/2019	0.0824 (J)	2.05				1.05	0.931		<0.1015
10/2/2019				0.129				<0.1015	
3/30/2020								0.0347 (J)	
3/31/2020		1.74							<0.1015
4/1/2020				0.073 (J)		0.435			
8/31/2020									<0.1015
9/1/2020	0.0907 (J)			0.146	0.124	0.855	0.895	0.0368 (J)	
9/2/2020		1.9	<0.1015						
5/17/2021				0.0911 (J)					
5/18/2021					0.124			0.0334 (J)	<0.1015
5/19/2021		1.74	<0.1015			0.866			
5/25/2021	0.0617 (J)						0.252		
10/25/2021				0.0887 (J)	0.113	0.934	0.142		
10/26/2021	0.0498 (J)		<0.1015						
11/1/2021		2.18						<0.1015	<0.1015
5/23/2022						0.91			
5/24/2022	0.0376 (J)						0.159	0.0333 (J)	<0.1015
5/25/2022		1.98	<0.1015	0.0597 (J)	0.177				
10/31/2022				0.064 (J)	0.198	1.65	0.63		
11/1/2022		2.24	<0.1015					0.0424 (J)	
11/2/2022	0.033 (J)								<0.1015

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.0707 (J)	
10/1/2019	0.101	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.046 (J)	
8/31/2020		
9/1/2020	0.106	0.134
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.0909 (J)	0.119
5/25/2021		
10/25/2021		
10/26/2021	0.0784 (J)	
11/1/2021		0.11
5/23/2022	0.0653 (J)	
5/24/2022		0.0977 (J)
5/25/2022		
10/31/2022	0.06 (J)	
11/1/2022		0.0866 (J)
11/2/2022		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.1015	0.0462 (J)	
3/2/2016						<0.1015			
4/19/2016						<0.1015	<0.1015		
4/20/2016								0.0719 (J)	
6/7/2016						<0.1015	<0.1015	0.0591 (J)	
8/30/2016							<0.1015	0.0675 (J)	
8/31/2016						<0.1015			
10/18/2016								0.0699 (J)	
10/19/2016						<0.1015	<0.1015		
1/31/2017						<0.1015	<0.1015	0.0518 (J)	
5/2/2017						<0.1015	<0.1015		
5/3/2017								0.0737 (J)	
6/6/2017						<0.1015	<0.1015		
6/7/2017								0.0518 (J)	
9/12/2017						<0.1015	<0.1015		
9/14/2017								0.0825 (J)	
5/1/2018						<0.1015	<0.1015		
5/2/2018								0.0603 (J)	
11/27/2018						<0.1015	<0.1015	0.0613 (J)	
11/28/2018									
1/8/2019				0.213					0.029 (J)
5/29/2019						<0.1015	<0.1015	0.0946 (J)	
7/31/2019	0.0643 (J)	0.0531 (J)							
9/30/2019									
10/1/2019	0.105	0.0856 (J)				<0.1015	<0.1015	0.103	
10/2/2019				0.344					0.0336 (J)
3/30/2020									
3/31/2020				0.325		<0.1015	<0.1015	0.0782 (J)	0.0339 (J)
4/1/2020		<0.1							
9/1/2020	0.115	0.0943 (J)	0.307			<0.1015	<0.1015	0.115	0.0414 (J)
9/2/2020				0.382	<0.1015				
5/17/2021			0.32						
5/18/2021						<0.1015	<0.1015		
5/24/2021		0.0785 (J)			<0.1015				
5/25/2021	0.0889 (J)			0.37					
10/26/2021	0.0725 (J)	0.0709 (J)	0.306	0.354					
10/27/2021									
11/1/2021						<0.1015	<0.1015		
11/2/2021					<0.1015			0.0755 (J)	<0.1015
5/24/2022	0.0562 (J)			0.351					
5/25/2022		0.0526 (J)	0.307		<0.1015	<0.1015	<0.1015	0.063 (J)	<0.1015
10/31/2022	0.0346 (J)				<0.1015		<0.1015	0.0515 (J)	0.0652 (J)
11/1/2022		0.0382 (J)	0.345			<0.1015			
11/2/2022				0.337					

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.1015	0.0546 (J)
3/2/2016		
4/19/2016	<0.1015	
4/20/2016		0.0472 (J)
6/7/2016	<0.1015	0.0417 (J)
8/30/2016	<0.1015	
8/31/2016		0.036 (J)
10/18/2016		
10/19/2016	<0.1015	0.0386 (J)
1/31/2017	<0.1015	0.0343 (J)
5/2/2017		
5/3/2017	<0.1015	0.037 (J)
6/6/2017		
6/7/2017	<0.1015	0.0227 (J)
9/12/2017		
9/14/2017	<0.1015	0.0471 (J)
5/1/2018		
5/2/2018	<0.1015	0.0313 (J)
11/27/2018		
11/28/2018	<0.1015	0.0311 (J)
1/8/2019		
5/29/2019	<0.1015	0.042 (J)
7/31/2019		
9/30/2019		0.0418 (J)
10/1/2019	<0.1015	
10/2/2019		
3/30/2020		0.0369 (J)
3/31/2020	<0.1015	
4/1/2020		
9/1/2020		
9/2/2020	<0.1015	0.042 (J)
5/17/2021	<0.1015	
5/18/2021		0.037 (J)
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		0.0427 (J)
11/1/2021		
11/2/2021	<0.1015	
5/24/2022		0.0369 (J)
5/25/2022	<0.1015	
10/31/2022	<0.1015	0.28
11/1/2022		
11/2/2022		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					0.0212 (J)	0.0252 (J)	<0.1015	0.0257 (J)	
3/1/2016		1.72		1.79					
4/19/2016					<0.1	<0.1015	<0.1015	<0.1015	
4/20/2016		1.7		2.01					
6/6/2016					<0.1			<0.1015	
6/7/2016		1.57				0.0202 (J)	<0.1015		
6/8/2016				2.23					
8/30/2016		1.67			<0.1	<0.1015	<0.1015	<0.1015	
8/31/2016				2.14					
10/18/2016		1.4			<0.1	<0.1015	<0.1015	0.022 (J)	
10/19/2016				2.13					
1/31/2017		1.46			<0.1	<0.1015	<0.1015	<0.1015	
2/1/2017				2.17					
5/2/2017					<0.1	<0.1015	<0.1015	<0.1015	
5/3/2017		1.45		2.28					
6/6/2017					<0.1	<0.1015	<0.1015	<0.1015	
6/7/2017		1.41		2.25					
9/12/2017								<0.1015	
9/13/2017					<0.1	<0.1015	<0.1015		
9/14/2017		1.16		2.41					
5/1/2018						<0.1015	<0.1015	<0.1015	
5/2/2018		1.12		2.34	0.0362 (J)				
11/26/2018								<0.1015	
11/27/2018		1.31			0.11		<0.1015		
11/28/2018				2.23					
1/9/2019	0.0615 (J)		0.164						
5/28/2019								<0.1015	
5/29/2019		1.44			0.188	<0.1015	<0.1015		
5/30/2019				2.45					
9/30/2019		1.38		2.34					
10/1/2019	0.0546 (J)		0.241						
10/2/2019					0.097 (J)	<0.1015	<0.1015	<0.1015	
3/30/2020	0.0555 (J)	1.12	0.247						
3/31/2020				2.27	0.157	<0.1015	<0.1015	<0.1015	
9/2/2020	0.0565 (J)	1.26	0.26	2.05					<0.1015
9/8/2020								<0.1015	
9/9/2020					0.0999 (J)	<0.1015	<0.1015	<0.1015	
5/11/2021		0.971				<0.1015	<0.1015	<0.1015	
5/12/2021					0.0841 (J)				
5/18/2021	0.0599 (J)		0.247	2.08					
5/24/2021									<0.1015
10/18/2021							<0.1015	<0.1015	
10/19/2021					0.0708 (J)	<0.1015			
10/26/2021		0.933	0.216						
10/27/2021	0.0546 (J)			2.04					
11/2/2021									<0.1015
5/23/2022			0.259						
5/24/2022	0.165	1.12		2.01					
5/25/2022									<0.1015
5/31/2022					0.0567 (J)	<0.1015	<0.1015	<0.1015	
10/31/2022	0.329		0.186	2.3					
11/1/2022					0.0501 (J)	<0.1015	<0.1015	<0.1015	<0.1015

Time Series

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

11/2/2022	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
		1.59							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.000203		<0.000203					
3/2/2016	<0.000203				<0.000203		<0.000203		<0.000203
4/19/2016	<0.000203								
4/20/2016		<0.000203		<0.000203	<0.000203		<0.000203		<0.000203
6/8/2016	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203		<0.000203
8/30/2016									<0.000203
8/31/2016	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203		
10/18/2016									<0.000203
10/19/2016	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203		
1/31/2017	<0.000203						<0.000203		<0.000203
2/1/2017		<0.000203		<0.000203	<0.000203				
5/2/2017	<0.000203								<0.000203
5/3/2017		<0.000203		<0.000203	<0.000203		<0.000203		
6/6/2017	<0.000203								<0.000203
6/7/2017		<0.000203		<0.000203	<0.000203		0.00077 (J)		
1/22/2018							<0.000203		
1/23/2018		<0.000203		<0.000203	<0.000203				<0.000203
1/24/2018	<0.000203								
5/1/2018	<0.000203								
5/2/2018		<0.000203		<0.000203	<0.000203		<0.000203		<0.000203
11/27/2018									<0.000203
11/28/2018	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203		
1/8/2019			<0.000203			<0.000203			
5/29/2019	<0.000203			<0.000203	<0.000203		<0.000203		<0.000203
5/30/2019		<0.000203							
9/30/2019		<0.000203		<0.000203					
10/1/2019	<0.000203		<0.000203		<0.000203		<0.000203		<0.000203
10/2/2019						<0.000203			
3/30/2020	<0.000203								
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
4/1/2020									
9/1/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
9/2/2020								<0.000203	<0.000203
5/11/2021		<0.000203							
5/18/2021	<0.000203		<0.000203		<0.000203	<0.000203			
5/19/2021				<0.000203			<0.000203	<0.000203	
5/25/2021									<0.000203
10/26/2021							<0.000203	<0.000203	
10/27/2021		<0.000203	<0.000203						<0.000203
11/1/2021	<0.000203				<0.000203	<0.000203			
11/2/2021				<0.000203					
5/23/2022				<0.000203	<0.000203	<0.000203			
5/24/2022	<0.000203	<0.000203	<0.000203				<0.000203		
5/25/2022								<0.000203	<0.000203
11/1/2022			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/2/2022	<0.000203	<0.000203							

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.000203
4/19/2016		<0.000203
4/20/2016		
6/8/2016		<0.000203
8/30/2016		
8/31/2016		<0.000203
10/18/2016		
10/19/2016		<0.000203
1/31/2017		<0.000203
2/1/2017		
5/2/2017		<0.000203
5/3/2017		
6/6/2017		<0.000203
6/7/2017		
1/22/2018		<0.000203
1/23/2018		
1/24/2018		
5/1/2018		<0.000203
5/2/2018		
11/27/2018		<0.000203
11/28/2018		
1/8/2019		
5/29/2019		<0.000203
5/30/2019		
9/30/2019		
10/1/2019		<0.000203
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.000203
9/1/2020		
9/2/2020	<0.000203	<0.000203
5/11/2021		<0.000203
5/18/2021		
5/19/2021		
5/25/2021	<0.000203	
10/26/2021	<0.000203	<0.000203
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.000203	
5/25/2022		<0.000203
11/1/2022	<0.000203	<0.000203
11/2/2022		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.000203							<0.000203
4/19/2016		<0.000203							<0.000203
6/8/2016		<0.000203							<0.000203
8/31/2016		<0.000203							<0.000203
10/19/2016		<0.000203							<0.000203
1/31/2017		<0.000203							<0.000203
5/2/2017		<0.000203							<0.000203
6/6/2017		<0.000203							<0.000203
1/23/2018		<0.000203							<0.000203
1/24/2018									<0.000203
5/1/2018		<0.000203							<0.000203
11/27/2018		<0.000203							<0.000203
1/8/2019								<0.0002	
3/20/2019						<0.000203			
5/29/2019		<0.000203							<0.000203
7/31/2019	<0.0002			<0.000203			<0.000203		
10/1/2019	<0.0002	<0.000203				<0.000203	<0.000203		<0.000203
10/2/2019				<0.000203				<0.0002	
3/30/2020								<0.0002	
3/31/2020		<0.000203							<0.000203
4/1/2020				<0.000203		<0.000203			
8/31/2020									<0.000203
9/1/2020	<0.0002			<0.000203	<0.000203	<0.000203	<0.000203	<0.0002	
9/2/2020		<0.000203	<0.0002						
5/17/2021				<0.000203					
5/18/2021					<0.000203			<0.0002	<0.000203
5/19/2021		<0.000203	<0.0002			<0.000203			
5/25/2021	<0.0002						<0.000203		
10/25/2021				<0.000203	<0.000203	<0.000203	<0.000203		
10/26/2021	<0.0002		<0.0002						
11/1/2021		<0.000203						<0.0002	<0.000203
5/23/2022						<0.000203			
5/24/2022	0.00018 (J)						<0.000203	<0.0002	<0.000203
5/25/2022		<0.000203	<0.0002	<0.000203	<0.000203				
10/31/2022				<0.000203	<0.000203	<0.000203	<0.000203		
11/1/2022		<0.000203	7E-05 (J)					7.1E-05 (J)	
11/2/2022	0.0001 (J)								<0.000203

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.000203	
10/1/2019	<0.000203	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.000203	
8/31/2020		
9/1/2020	<0.000203	<0.000203
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.000203	<0.000203
5/25/2021		
10/25/2021		
10/26/2021	<0.000203	
11/1/2021		<0.000203
5/23/2022	<0.000203	
5/24/2022		<0.000203
5/25/2022		
10/31/2022	<0.000203	
11/1/2022		<0.000203
11/2/2022		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.0002	<0.000203	
3/2/2016						<0.000203			
4/19/2016						<0.000203	<0.0002		
4/20/2016								<0.000203	
6/7/2016						<0.000203	<0.0002	<0.000203	
8/30/2016							<0.0002	<0.000203	
8/31/2016						<0.000203			
10/18/2016								<0.000203	
10/19/2016						<0.000203	<0.0002		
1/31/2017						<0.000203	<0.0002	<0.000203	
5/2/2017						<0.000203	<0.0002		
5/3/2017								<0.000203	
6/6/2017						<0.000203	<0.0002		
6/7/2017								<0.000203	
1/24/2018						<0.000203	<0.0002	<0.000203	
5/1/2018						<0.000203	<0.0002		
5/2/2018								<0.000203	
11/27/2018						<0.000203	<0.0002	<0.000203	
11/28/2018									
1/8/2019				<0.000203					<0.000203
5/29/2019						<0.000203	<0.0002	<0.000203	
7/31/2019	<0.000203	<0.000203							
9/30/2019									
10/1/2019	<0.000203	<0.000203				<0.000203	<0.0002	<0.000203	
10/2/2019				<0.000203					<0.000203
3/30/2020									
3/31/2020				<0.000203		<0.000203	<0.0002	<0.000203	<0.000203
4/1/2020		<0.000203							
9/1/2020	<0.000203	<0.000203	<0.000203			<0.000203	<0.0002	<0.000203	<0.000203
9/2/2020				<0.000203	<0.000203				
5/17/2021			<0.000203						
5/18/2021						<0.000203	<0.0002		
5/24/2021		<0.000203			<0.000203				
5/25/2021	<0.000203			<0.000203					
10/26/2021	<0.000203	<0.000203	<0.000203	<0.000203					
10/27/2021									
11/1/2021						<0.000203	<0.0002		
11/2/2021					<0.000203			<0.000203	<0.000203
5/24/2022	<0.000203			<0.000203					
5/25/2022		<0.000203	<0.000203		<0.000203	<0.000203	<0.0002	<0.000203	<0.000203
10/31/2022	<0.000203				<0.000203		0.000102 (J)	<0.000203	<0.000203
11/1/2022		<0.000203	<0.000203			<0.000203			
11/2/2022				<0.000203					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.000203	<0.000203
3/2/2016		
4/19/2016	<0.000203	
4/20/2016		<0.000203
6/7/2016	<0.000203	<0.000203
8/30/2016	<0.000203	
8/31/2016		<0.000203
10/18/2016		
10/19/2016	<0.000203	<0.000203
1/31/2017	<0.000203	<0.000203
5/2/2017		
5/3/2017	<0.000203	<0.000203
6/6/2017		
6/7/2017	<0.000203	<0.000203
1/24/2018	<0.000203	<0.000203
5/1/2018		
5/2/2018	<0.000203	<0.000203
11/27/2018		
11/28/2018	<0.000203	<0.000203
1/8/2019		
5/29/2019	<0.000203	<0.000203
7/31/2019		
9/30/2019		<0.000203
10/1/2019	<0.000203	
10/2/2019		
3/30/2020		<0.000203
3/31/2020	<0.000203	
4/1/2020		
9/1/2020		
9/2/2020	<0.000203	<0.000203
5/17/2021	<0.000203	
5/18/2021		<0.000203
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		<0.000203
11/1/2021		
11/2/2021	7E-05 (J)	
5/24/2022		<0.000203
5/25/2022	0.00031	
10/31/2022	6.8E-05 (J)	<0.000203
11/1/2022		
11/2/2022		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.000203	<0.000203	<0.000203	<0.000203	
3/1/2016		<0.000203		<0.000203					
4/19/2016					<0.000203	<0.000203	<0.000203	<0.000203	
4/20/2016		<0.000203		<0.000203					
6/6/2016					<0.000203				<0.000203
6/7/2016		<0.000203				<0.000203	<0.000203		
6/8/2016				<0.000203					
8/30/2016		<0.000203			<0.000203	<0.000203	<0.000203	<0.000203	
8/31/2016				<0.000203					
10/18/2016		<0.000203			<0.000203	<0.000203	<0.000203	<0.000203	
10/19/2016				<0.000203					
1/31/2017		<0.000203			<0.000203	<0.000203	<0.000203	<0.000203	
2/1/2017				<0.000203					
5/2/2017					<0.000203	<0.000203	<0.000203	<0.000203	
5/3/2017		<0.000203		<0.000203					
6/6/2017					<0.000203	<0.000203	<0.000203	<0.000203	
6/7/2017		<0.000203		<0.000203					
1/23/2018				<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
1/24/2018		<0.000203							
5/1/2018						<0.000203	<0.000203	<0.000203	
5/2/2018		<0.000203		<0.000203	<0.000203				
11/26/2018									<0.000203
11/27/2018		<0.000203			<0.000203	<0.000203	<0.000203		
11/28/2018				<0.000203					
1/9/2019	<0.000203		<0.000203						
5/28/2019								<0.000203	
5/29/2019		<0.000203			<0.000203	<0.000203	<0.000203		
5/30/2019				<0.000203					
9/30/2019		<0.000203		<0.000203					
10/1/2019	<0.000203		<0.000203						
10/2/2019					<0.000203	<0.000203	<0.000203	<0.000203	
3/30/2020	<0.000203	<0.000203	<0.000203						
3/31/2020				<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
9/2/2020	<0.000203	<0.000203	<0.000203	<0.000203					<0.000203
9/8/2020								<0.000203	
9/9/2020					<0.000203	<0.000203	<0.000203		
5/11/2021		<0.000203				<0.000203	<0.000203	<0.000203	
5/12/2021					<0.000203				
5/18/2021	<0.000203		<0.000203	<0.000203					
5/24/2021									<0.000203
10/18/2021							7E-05 (J)	<0.000203	
10/19/2021					<0.000203	<0.000203			
10/26/2021		<0.000203	<0.000203						
10/27/2021	<0.000203			<0.000203					
11/2/2021									<0.000203
5/23/2022			<0.000203						
5/24/2022	<0.000203	<0.000203		<0.000203					
5/25/2022									<0.000203
5/31/2022					<0.000203	<0.000203	<0.000203	<0.000203	
10/31/2022	<0.000203		<0.000203	<0.000203					
11/1/2022					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/2/2022		<0.000203							

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		50.6		35.3					
3/2/2016	46.5				21		16.7		9.53
4/19/2016	49								
4/20/2016		49.1		28.9	20.1		13.1		9.55
6/8/2016	33.5	48.7		27.6	20.2		11.7		13.1
8/30/2016									12.1
8/31/2016	34.2	57.9		25.4	19.9		11.3		
10/18/2016									11.4
10/19/2016	35.1	52.2		25.7	20.4		11.8		
1/31/2017	38.5						12.5		10.8
2/1/2017		47.6		25.6	20.9				
5/2/2017	35.1								11.9
5/3/2017		51.3		24	20.9		12		
6/6/2017	32.4								12.2
6/7/2017		51.4		25.2	21.2		12.8		
9/13/2017	40.5			25.5	22.1		13.3		13.9
9/14/2017		54.9							
5/1/2018	39.7								
5/2/2018		53.3		25.2	22.2		13.8		10.6
8/28/2018	37.2	56.4							
8/29/2018				25.6	22.3		13.3		11.7
11/27/2018									10.8
11/28/2018	35.8	54.2		24.6	22.1		15.2		
1/8/2019			57.2			33.8			
5/29/2019	33.4			23.9	21.4		12.8		11.2
5/30/2019		60.5							
9/30/2019		63.1		24.6					
10/1/2019	36.7		61.2		23.1		13.4		11.4
10/2/2019						22.2			
3/30/2020	33.7								
3/31/2020		63.6	66.6	25.1	22.4	21.3	13.2		9.04
4/1/2020									
9/1/2020	40.5	57.2	57.3	23.9	22.2	21	12.3		
9/2/2020								12.3	10.8
5/11/2021		62.7							
5/18/2021	39.5		64		23.1	22.1			
5/19/2021				41.5			12.9	12.7	
5/25/2021									11.2
10/26/2021							12.3	11.3	
10/27/2021		64.2	61.6						11.4
11/1/2021	38.4				21.8	21.4			
11/2/2021				25.8					
5/23/2022				26	20.6	20.6			
5/24/2022	43.9	63.9	65				19.2		
5/25/2022								12	11.4
11/1/2022			69.900002	26.4	22.5	20.700001	25.200001	12.2	10.9
11/2/2022	38.900002	59.5							

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		6.61
4/19/2016		5.97
4/20/2016		
6/8/2016		6.36
8/30/2016		
8/31/2016		6.28
10/18/2016		
10/19/2016		6.57
1/31/2017		6.77
2/1/2017		
5/2/2017		6.94
5/3/2017		
6/6/2017		6.88
6/7/2017		
9/13/2017		7.43
9/14/2017		
5/1/2018		7.42
5/2/2018		
8/28/2018		
8/29/2018		7.37
11/27/2018		7.58
11/28/2018		
1/8/2019		
5/29/2019		7.22
5/30/2019		
9/30/2019		
10/1/2019		6.9
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		7.32
9/1/2020		
9/2/2020	4.7	7.04
5/11/2021		6.98
5/18/2021		
5/19/2021		
5/25/2021	4.66	
10/26/2021	5.28	6.46
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	7.03	
5/25/2022		6.41
11/1/2022	5.52	6.57
11/2/2022		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	30.3	
10/1/2019	29.4	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	26	
8/31/2020		
9/1/2020	28.8	14.7
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	30.9	15.3
5/25/2021		
10/25/2021		
10/26/2021	30.2	
11/1/2021		15.1
5/23/2022	28.6	
5/24/2022		14.4
5/25/2022		
10/31/2022	28	
11/1/2022		13.8
11/2/2022		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							1.07	15	
3/2/2016						1.11			
4/19/2016						1.01	0.969		
4/20/2016								14.3	
6/7/2016						1.06	1.08	14.8	
8/30/2016							0.952	13.7	
8/31/2016						0.978			
10/18/2016								13.3	
10/19/2016						0.906	1.17		
1/31/2017						1.04	0.946	13.7	
5/2/2017						0.969	0.826		
5/3/2017								14.3	
6/6/2017						0.902	0.834		
6/7/2017								14.7	
9/12/2017						0.988	0.884		
9/14/2017								15.1	
5/1/2018						1.07	0.921		
5/2/2018								14.5	
8/28/2018						1.02	0.8		
8/29/2018								14.3	
11/27/2018						0.999	1.01	13.7	
11/28/2018									
1/8/2019				38					3.7
5/29/2019						1.09	0.627	14.5	
7/31/2019	15	25.8							
9/30/2019									
10/1/2019	15.5	27.2				1.08	0.645	13.8	
10/2/2019				18.4					2.43
3/30/2020									
3/31/2020				18.1		1.1	0.898	14.4	1.88
4/1/2020		15.8							
9/1/2020	14.8	35.8	1.27			1.08	0.566	13.6	2.13
9/2/2020				17.6	0.875				
5/17/2021			1.33						
5/18/2021						1.12	0.974		
5/24/2021		27.1			0.905				
5/25/2021	15.2			18.6					
10/26/2021	15.1	29.4	0.837	18.4					
10/27/2021									
11/1/2021						1.09	0.816		
11/2/2021					1.05			16.2	2.11
5/24/2022	14.4			17.9					
5/25/2022		24.5	0.899		0.949	1.29	1.69	14.6	2.62
10/31/2022	13.8				0.951		3.38	10.1	2.16
11/1/2022		23.9	3.65			0.926			
11/2/2022				17.6					

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	1.87	7.65
3/2/2016		
4/19/2016	1.69	
4/20/2016		7.54
6/7/2016	1.75	7.71
8/30/2016	1.77	
8/31/2016		8.1
10/18/2016		
10/19/2016	1.8	8.59
1/31/2017	1.98	8.78
5/2/2017		
5/3/2017	1.97	8.85
6/6/2017		
6/7/2017	1.98	8.99
9/12/2017		
9/14/2017	2.14	9.64
5/1/2018		
5/2/2018	2.13	9.14
8/28/2018		
8/29/2018	1.92	
11/27/2018		
11/28/2018	1.91	9.66
1/8/2019		
5/29/2019	1.72	8.88
7/31/2019		
9/30/2019		9.8
10/1/2019	1.92	
10/2/2019		
3/30/2020		10.1
3/31/2020	1.68	
4/1/2020		
9/1/2020		
9/2/2020	1.8	10.4
5/17/2021	1.93	
5/18/2021		10.2
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		10
11/1/2021		
11/2/2021	1.97	
5/24/2022		10.5
5/25/2022	1.62	
10/31/2022	1.63	2.36
11/1/2022		
11/2/2022		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					1.28	1.11	1.77	1.42	
3/1/2016		36.1		40.3					
4/19/2016					1.19	1.09	1.68	1.31	
4/20/2016		34.5		38.2					
6/6/2016					1.19				1.35
6/7/2016		34.7				1.16	1.68		
6/8/2016				39.2					
8/30/2016		34.1			1.11	1.08	1.62	1.31	
8/31/2016				38.2					
10/18/2016		33.2			1.04	1.03	1.53	1.22	
10/19/2016				38.7					
1/31/2017		32.3			1.19	1.23	1.65	1.36	
2/1/2017				39.2					
5/2/2017					1.05	1.28	1.58	1.24	
5/3/2017		34.1		39.1					
6/6/2017					0.978	1.25	1.55	1.28	
6/7/2017		34.7		40.3					
9/12/2017									1.47
9/13/2017					1.14	1.6	1.71		
9/14/2017		34.4		40.7					
5/1/2018						1.58	1.76	1.47	
5/2/2018		32.3		40	1.64				
8/28/2018				40					
8/29/2018		32.6							
11/26/2018									1.52
11/27/2018		32.5			2.01	1.49	1.69		
11/28/2018				39.7					
1/9/2019	37		27.2						
5/28/2019								1.6	
5/29/2019		31.9			1.85	1.59	1.74		
5/30/2019				38.5					
9/30/2019		33		39.9					
10/1/2019	18.7		24.2						
10/2/2019					1.55	1.7	1.86	1.7	
3/30/2020	20	32.2	24.5						
3/31/2020				40.1	1.96	1.43	1.92	1.78	
9/2/2020	13.9	31.5	23.3	38					0.547
9/8/2020								1.94	
9/9/2020					1.43	1.5	1.97		
5/11/2021		33				1.39	2.06	1.93	
5/12/2021					1.34				
5/18/2021	14.1		26.4	40.5					
5/24/2021									0.554
10/18/2021							2.1	2.01	
10/19/2021					1.17	1.32			
10/26/2021		33.5	25.7						
10/27/2021	17.2			40.3					
11/2/2021									0.567
5/23/2022			24.4						
5/24/2022	8.84	31.5		38.3					
5/25/2022									0.573
5/31/2022					1.14	1.24	1.95	2.02	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
10/31/2022	3.61		23.9	38.099998					
11/1/2022					1.01	1.23	1.94	1.59	0.609
11/2/2022		31							

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		19.6		21.7					
3/2/2016	2.18 (O)				22.2		47.3		36.6
4/19/2016	9.01 (O)								
4/20/2016		18.8		20.7	21.7		40.5		35.5
6/8/2016	21	18.6		20.4	22		37.2		43.8
8/30/2016									41.6
8/31/2016	21	18.5		20.3	22.3		38.2		
10/18/2016									39.5
10/19/2016	21.4	18.7		20.3	20.8		39.4		
3/21/2017	25								
3/22/2017		21		27	23		49		46
5/2/2017	26								42
5/3/2017		22		27	25		48		
6/6/2017	27								44
6/7/2017		22		24	23		49		
9/13/2017	24			26	23		42		43
9/14/2017		22							
5/1/2018	25								
5/2/2018		23		23	21		47		39
8/28/2018	25	25							
8/29/2018				25	23		43		44
11/27/2018									43
11/28/2018	26	25		25	23		43		
1/8/2019			21.3			23.1			
5/29/2019	27.6			27.8	24.1		44		50.1
5/30/2019		25.9							
9/30/2019		25.7		25					
10/1/2019	24.6		20		26.1		39.6		44.8
10/2/2019						28			
3/30/2020	24.9								
3/31/2020		26.1	20.7	24.1	23.9	25	44.9		44.7
4/1/2020									
9/1/2020	25.7	25	22.9	23.2	23.4	26.4	39.1		
9/2/2020								51.7	47.2
5/11/2021		27.3							
5/18/2021	25.1		21		25.4	25.5			
5/19/2021				23.1			46.8	64.4	
5/25/2021									52.1
10/26/2021							38.4	47.7	
10/27/2021		27.2	21						42.9
11/1/2021	26.2				27.4	26.1			
11/2/2021				25.1					
5/23/2022				25.1	26.2	25.6			
5/24/2022	28.7	27.7	19.4				43.5		
5/25/2022								59.3	45.3
11/1/2022			22.1	22.700001	24.9	26.9	40.200001	62.700001	53.099998
11/2/2022	25.1	25.1							

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		20.9
4/19/2016		19.8
4/20/2016		
6/8/2016		24
8/30/2016		
8/31/2016		28
10/18/2016		
10/19/2016		21.3
3/21/2017		34
3/22/2017		
5/2/2017		33
5/3/2017		
6/6/2017		35
6/7/2017		
9/13/2017		36
9/14/2017		
5/1/2018		42
5/2/2018		
8/28/2018		
8/29/2018		38
11/27/2018		43
11/28/2018		
1/8/2019		
5/29/2019		47.2
5/30/2019		
9/30/2019		
10/1/2019		56.3
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		54.7
9/1/2020		
9/2/2020	178	47
5/11/2021		80
5/18/2021		
5/19/2021		
5/25/2021	210	
10/26/2021	191	85.4
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	184	
5/25/2022		80.7
11/1/2022	175	99.099998
11/2/2022		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
3/21/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	33.4	
10/1/2019	44.7	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	23.1	
8/31/2020		
9/1/2020	34.6	27.1
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	36.2	32.4
5/25/2021		
10/25/2021		
10/26/2021	34	
11/1/2021		29.6
5/23/2022	44.1	
5/24/2022		35.4
5/25/2022		
10/31/2022	35.299999	
11/1/2022		28.4
11/2/2022		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							7.74	19.7	
3/2/2016						8.04			
4/19/2016						7.6	7.66		
4/20/2016								18.9	
6/7/2016						7.7	11.3	18.5	
8/30/2016							10.8	17.9	
8/31/2016						7.7			
10/18/2016								18.2	
10/19/2016						7.73	11.1		
3/21/2017						7.2	11		
3/22/2017								22	
5/2/2017						8.6	12		
5/3/2017								22	
6/6/2017						8.3	12		
6/7/2017								21	
9/12/2017						8.5	11		
9/14/2017								21	
5/1/2018						7.6	9.2		
5/2/2018								20	
8/28/2018						8.2	10		
8/29/2018								21	
11/27/2018						8.4	10	21	
11/28/2018									
1/8/2019				44.6					20.9
5/29/2019						9.01	8.53	19.7	
7/31/2019	60.3	8.03							
9/30/2019									
10/1/2019	70	6.7				8.05	7.35	19.8	
10/2/2019				53					25.8
3/30/2020									
3/31/2020				47.5		9.07	9.54	19.8	25.8
4/1/2020		4.46							
9/1/2020	59.9	6.96	117			8.97	7.82	19.1	30.6
9/2/2020				43.7	4.62				
5/17/2021			134						
5/18/2021						9.52	9.53		
5/24/2021		6.33			4.72				
5/25/2021	65.4			46					
10/26/2021	54.5	5.64	124	41.6					
10/27/2021									
11/1/2021						9.76	7.99		
11/2/2021					5.07			21	30.5
5/24/2022	57.1			45.7					
5/25/2022		6.63	106		5.32	15.2	16.1	20	22.6
10/31/2022	61.599998				5.67		32.799999	17.5	35.299999
11/1/2022		7.96	365			8.88			
11/2/2022				45.400002					

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	5.77	11.2
3/2/2016		
4/19/2016	5.57	
4/20/2016		10.8
6/7/2016	5.52	10.8
8/30/2016	5.5	
8/31/2016		10.8
10/18/2016		
10/19/2016	5.55	10.8
3/21/2017		
3/22/2017	6	13
5/2/2017		
5/3/2017	6.4	14
6/6/2017		
6/7/2017	5.9	14
9/12/2017		
9/14/2017	6.5	13
5/1/2018		
5/2/2018	5.5	13
8/28/2018		
8/29/2018	5.4	
11/27/2018		
11/28/2018	6.2	13
1/8/2019		
5/29/2019	6.15	13.3
7/31/2019		
9/30/2019		13.1
10/1/2019	5.99	
10/2/2019		
3/30/2020		13.3
3/31/2020	5.94	
4/1/2020		
9/1/2020		
9/2/2020	5.94	12.9
5/17/2021	6.26	
5/18/2021		14.2
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		15.3
11/1/2021		
11/2/2021	6.4	
5/24/2022		13.2
5/25/2022	6.63	
10/31/2022	7.48	95.699997
11/1/2022		
11/2/2022		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					3.59	3.99	3.68	3.5	
3/1/2016		24.5		20.4					
4/19/2016					2.89	4.08	3.72	3.63	
4/20/2016		22.5		22.7					
6/6/2016					3.12			3.6	
6/7/2016		21.6				4.28	3.66		
6/8/2016				25.3					
8/30/2016		21.6			3.91	4.26	3.7	3.54	
8/31/2016				24.4					
10/18/2016		20.2			3.9	4.26	3.77	3.68	
10/19/2016				23					
3/20/2017					3.5	4.1	3.7	4.6	
3/22/2017		24		26					
5/2/2017					3.5 (D)	5 (D)	4.6 (D)	3.9 (D)	
5/3/2017		25		26					
6/6/2017					3.1 (D)	3.9 (D)	3.4 (D)	3.4 (D)	
6/7/2017		24		27					
9/12/2017								4.3	
9/13/2017					4	4.3	3.9		
9/14/2017		24		24					
5/1/2018						3.7	4.1	3.8	
5/2/2018		23		22	9.9				
8/28/2018				21					
8/29/2018		25							
11/26/2018								3.6	
11/27/2018		27			4.7	3.2	3.5		
11/28/2018				23					
1/9/2019	16.9		21.9						
5/28/2019								3.6	
5/29/2019		27.4			5.48	2.93	3.58		
5/30/2019				27.7					
9/30/2019		25.5		21.7					
10/1/2019	13.2		22.6						
10/2/2019					3.65	2.75	3.64	3.5	
3/30/2020	15.5	22.6	22.7						
3/31/2020				20.6	3.17	2.72	3.47	3.34	
9/2/2020	14.2	22.2	22.6	18.5					3.85
9/8/2020								3.29	
9/9/2020					2.92	2.32	3.47		
5/11/2021		21.9				2.16	3.42	3.33	
5/12/2021					2.18				
5/18/2021	19		22.7	18.3					
5/24/2021									3.48
10/18/2021							3.45	3.32	
10/19/2021					2.37	2.08			
10/26/2021		21.7	23.9						
10/27/2021	18.9			19.1					
11/2/2021									3.42
5/23/2022			22.1						
5/24/2022	40.4	25		17.3					
5/25/2022									3.22
5/31/2022					1.93	2.17	3.39	3.31	

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
10/31/2022	129		27.1	25.1					
11/1/2022					2.37	2.22	3.09	3.3	3.52
11/2/2022		26.6							

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.01		0.00213 (J)					
3/2/2016	0.00591 (J)				0.0042 (J)		0.00656 (J)		0.00552 (J)
4/19/2016	0.0077 (J)								
4/20/2016		<0.01		0.00214 (J)	0.0034 (J)		0.00661 (J)		0.00572 (J)
6/8/2016	0.00264 (J)	<0.01		0.00205 (J)	0.00308 (J)		0.0067 (J)		0.00492 (J)
8/30/2016									0.00534 (J)
8/31/2016	0.00246 (J)	<0.01		0.00221 (J)	0.0032 (J)		0.00693 (J)		
10/18/2016									0.00556 (J)
10/19/2016	0.00248 (J)	<0.01		0.00213 (J)	0.0035 (J)		0.00732 (J)		
1/31/2017	0.00556 (J)						0.00699 (J)		0.00514 (J)
2/1/2017		<0.01		0.00228 (J)	0.00371 (J)				
5/2/2017	0.00269 (J)								0.00524 (J)
5/3/2017		<0.01		0.00229 (J)	0.00369 (J)		0.00712 (J)		
6/6/2017	0.00295 (J)								0.00541 (J)
6/7/2017		<0.01		0.00233 (J)	0.00372 (J)		0.00752 (J)		
1/22/2018							0.00729 (J)		
1/23/2018		<0.01		0.00248 (J)	0.00605 (J)				0.00573 (J)
1/24/2018	0.00278 (J)								
5/1/2018	0.00435 (J)								
5/2/2018		<0.01		0.00273 (J)	0.00351 (J)		0.00642 (J)		0.00534 (J)
11/27/2018									0.00523 (J)
11/28/2018	0.0036 (J)	<0.01		0.0023 (J)	0.00353 (J)		0.0068 (J)		
1/8/2019			<0.01			0.0021 (J)			
5/29/2019	0.00223 (J)			0.00211 (J)	0.00333 (J)		0.00727 (J)		0.00455 (J)
5/30/2019		<0.01							
9/30/2019		<0.01		0.00228 (J)					
10/1/2019	0.00236 (J)		<0.01		0.00325 (J)		0.00764 (J)		0.00508 (J)
10/2/2019						<0.01			
3/30/2020	0.00415 (J)								
3/31/2020		<0.01	<0.01	0.00358 (J)	0.0056 (J)	<0.01	0.00955 (J)		0.00463 (J)
4/1/2020									
9/1/2020	0.00242 (J)	<0.01	<0.01	0.00259 (J)	0.00332 (J)	<0.01	0.00888 (J)		
9/2/2020								0.00525 (J)	0.00482 (J)
5/11/2021		0.000685 (J)							
5/18/2021	0.00294		0.000684 (J)		0.00377	0.00112			
5/19/2021				0.00301			0.00692	0.00416	
5/25/2021									0.00365
10/26/2021							0.00755	0.00606	
10/27/2021		0.00072 (J)	0.00068 (J)						0.00401
11/1/2021	0.00244				0.00423	0.00086 (J)			
11/2/2021				0.00348					
5/23/2022				0.00474	0.00374	0.00081 (J)			
5/24/2022	0.00238	0.00052 (J)	0.00049 (J)				0.00685		
5/25/2022								0.00488	0.00345
11/1/2022			0.000597 (J)	0.00316	0.00338	0.001 (J)	0.00772	0.00391	0.00317
11/2/2022	0.00371	0.000642 (J)							

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.01
4/19/2016		<0.01
4/20/2016		
6/8/2016		<0.01
8/30/2016		
8/31/2016		<0.01
10/18/2016		
10/19/2016		<0.01
1/31/2017		<0.01
2/1/2017		
5/2/2017		<0.01
5/3/2017		
6/6/2017		<0.01
6/7/2017		
1/22/2018		<0.01
1/23/2018		
1/24/2018		
5/1/2018		<0.01
5/2/2018		
11/27/2018		<0.01
11/28/2018		
1/8/2019		
5/29/2019		<0.01
5/30/2019		
9/30/2019		
10/1/2019		<0.01
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.01
9/1/2020		
9/2/2020	<0.01	<0.01
5/11/2021		0.000581 (J)
5/18/2021		
5/19/2021		
5/25/2021	0.00113	
10/26/2021	0.00098 (J)	0.00052 (J)
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.0006 (J)	
5/25/2022		0.00049 (J)
11/1/2022	0.000613 (J)	0.000361 (J)
11/2/2022		

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.01							<0.00102
4/19/2016		<0.01							<0.00102
6/8/2016		<0.01							<0.00102
8/31/2016		0.00215 (J)							<0.00102
10/19/2016		<0.01							<0.00102
1/31/2017		<0.01							<0.00102
5/2/2017		<0.01							<0.00102
6/6/2017		<0.01							<0.00102
1/23/2018		0.00253 (J)							
1/24/2018									<0.00102
5/1/2018		<0.01							<0.00102
11/27/2018		<0.01							<0.00102
1/8/2019								<0.01	
3/20/2019						0.00236 (J)			
5/29/2019		<0.01							<0.00102
7/31/2019	<0.001015			<0.01			<0.01		
10/1/2019	<0.001015	<0.01				<0.01	<0.01		<0.00102
10/2/2019				<0.01				<0.01	
3/30/2020								<0.01	
3/31/2020		<0.01							<0.00102
4/1/2020				<0.01		<0.01			
8/31/2020									<0.00102
9/1/2020	<0.001015			<0.01	<0.01	<0.01	<0.01	<0.01	
9/2/2020		<0.01	<0.00102						
5/17/2021				0.000627 (J)					
5/18/2021					0.000973 (J)			0.000447 (J)	0.000394 (J)
5/19/2021		0.00162	0.000385 (J)			0.00132			
5/25/2021	0.000258 (J)						0.000391 (J)		
10/25/2021				0.0006 (J)	0.00062 (J)	0.00134	0.00044 (J)		
10/26/2021	0.00026 (J)		0.0004 (J)						
11/1/2021		0.0018						0.00045 (J)	0.00029 (J)
5/23/2022						0.00133			
5/24/2022	0.00023 (J)						0.00042 (J)	0.00038 (J)	<0.00102
5/25/2022		0.00135	<0.00102	0.00033 (J)	0.00048 (J)				
10/31/2022				0.000446 (J)	0.000316 (J)	0.000706 (J)	0.000431 (J)		
11/1/2022		0.00122	0.000275 (J)					0.000558 (J)	
11/2/2022	<0.001015								0.000206 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.00209 (J)	
10/1/2019	0.0025 (J)	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.01	
8/31/2020		
9/1/2020	0.00283 (J)	<0.01
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.00284	0.000669 (J)
5/25/2021		
10/25/2021		
10/26/2021	0.00261	
11/1/2021		0.00061 (J)
5/23/2022	0.00233	
5/24/2022		0.00046 (J)
5/25/2022		
10/31/2022	0.00246	
11/1/2022		0.000578 (J)
11/2/2022		

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.01	<0.01	
3/2/2016						<0.01			
4/19/2016						<0.01	<0.01		
4/20/2016								<0.01	
6/7/2016						<0.01	<0.01	<0.01	
8/30/2016							<0.01	<0.01	
8/31/2016						<0.01			
10/18/2016								<0.01	
10/19/2016						<0.01	<0.01		
1/31/2017						<0.01	<0.01	<0.01	
5/2/2017						<0.01	<0.01		
5/3/2017								<0.01	
6/6/2017						<0.01	<0.01		
6/7/2017								<0.01	
1/24/2018						<0.01	<0.01	<0.01	
5/1/2018						<0.01	<0.01		
5/2/2018								<0.01	
11/27/2018						<0.01	<0.01	<0.01	
11/28/2018									
1/8/2019				<0.01					<0.01
5/29/2019						<0.01	<0.01	<0.01	
7/31/2019	<0.01	<0.01							
9/30/2019									
10/1/2019	<0.01	<0.01				<0.01	<0.01	<0.01	
10/2/2019				<0.01					<0.01
3/30/2020									
3/31/2020				<0.01		<0.01	<0.01	<0.01	<0.01
4/1/2020		<0.01							
9/1/2020	<0.01	<0.01	0.00284 (J)			<0.01	<0.01	<0.01	<0.01
9/2/2020				<0.01	<0.01				
5/17/2021			0.00163						
5/18/2021						0.000919 (J)	0.000544 (J)		
5/24/2021		0.000814 (J)			0.00117				
5/25/2021	0.000667 (J)			0.000878 (J)					
10/26/2021	0.00062 (J)	0.0007 (J)	0.00061 (J)	0.00104					
10/27/2021									
11/1/2021						0.00093 (J)	0.00067 (J)		
11/2/2021					0.00098 (J)			0.00101 (J)	0.00099 (J)
5/24/2022	0.00057 (J)			0.00081 (J)					
5/25/2022		0.00051 (J)	0.00046 (J)		0.00103	0.00104	0.00026 (J)	0.00103	0.00048 (J)
10/31/2022	0.000493 (J)				0.00111		0.00057 (J)	0.00096 (J)	0.001 (J)
11/1/2022		0.000394 (J)	<0.001015			0.00107			
11/2/2022				0.000799 (J)					

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.01	<0.01
3/2/2016		
4/19/2016	<0.01	
4/20/2016		<0.01
6/7/2016	<0.01	<0.01
8/30/2016	<0.01	
8/31/2016		<0.01
10/18/2016		
10/19/2016	<0.01	<0.01
1/31/2017	<0.01	<0.01
5/2/2017		
5/3/2017	<0.01	<0.01
6/6/2017		
6/7/2017	<0.01	<0.01
1/24/2018	<0.01	<0.01
5/1/2018		
5/2/2018	<0.01	0.00328 (J)
11/27/2018		
11/28/2018	<0.01	<0.01
1/8/2019		
5/29/2019	<0.01	<0.01
7/31/2019		
9/30/2019		<0.01
10/1/2019	<0.01	
10/2/2019		
3/30/2020		<0.01
3/31/2020	<0.01	
4/1/2020		
9/1/2020		
9/2/2020	<0.01	<0.01
5/17/2021	0.000313 (J)	
5/18/2021		0.00709
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		0.00309
11/1/2021		
11/2/2021	0.00023 (J)	
5/24/2022		0.00058 (J)
5/25/2022	0.00029 (J)	
10/31/2022	0.000281 (J)	0.000263 (J)
11/1/2022		
11/2/2022		

Time Series

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.01	<0.01	<0.01	<0.01	
3/1/2016		<0.01		<0.01					
4/19/2016					<0.01	<0.01	<0.01	<0.01	
4/20/2016		<0.01		<0.01					
6/6/2016					<0.01				<0.01
6/7/2016		<0.01				<0.01	<0.01		
6/8/2016				<0.01					
8/30/2016		<0.01			<0.01	<0.01	<0.01	<0.01	
8/31/2016				<0.01					
10/18/2016		<0.01			<0.01	<0.01	<0.01	<0.01	
10/19/2016				<0.01					
1/31/2017		<0.01			<0.01	<0.01	<0.01	<0.01	
2/1/2017				<0.01					
5/2/2017					<0.01	<0.01	<0.01	<0.01	
5/3/2017		<0.01		<0.01					
6/6/2017					<0.01	<0.01	<0.01	<0.01	
6/7/2017		<0.01		<0.01					
1/23/2018				<0.01	<0.01	0.00596 (J)	0.00229 (J)	<0.01	
1/24/2018		<0.01							
5/1/2018						<0.01	<0.01	<0.01	
5/2/2018		<0.01		<0.01	<0.01				
11/26/2018									<0.01
11/27/2018		<0.01			<0.01	<0.01	<0.01		
11/28/2018				<0.01					
1/9/2019	<0.01		<0.01						
5/28/2019									<0.01
5/29/2019		<0.01			<0.01	<0.01	<0.01		
5/30/2019				<0.01					
9/30/2019		<0.01		<0.01					
10/1/2019	<0.01		<0.01						
10/2/2019					<0.01	<0.01	<0.01	<0.01	
3/30/2020	<0.01	<0.01	<0.01						
3/31/2020				<0.01	<0.01	<0.01	<0.01	0.00604 (J)	
9/2/2020	<0.01	<0.01	<0.01	<0.01					<0.01
9/8/2020									<0.01
9/9/2020					<0.01	<0.01	<0.01		
5/11/2021		0.00156				0.00136	0.00146	0.00159	
5/12/2021					0.000296 (J)				
5/18/2021	0.000463 (J)		0.00129	0.00078 (J)					
5/24/2021									0.00119
10/18/2021							0.0013	0.00146	
10/19/2021					0.0003 (J)	0.00135			
10/26/2021		0.00165	0.00124						
10/27/2021	0.00052 (J)			0.00087 (J)					
11/2/2021									0.0013
5/23/2022			0.00124						
5/24/2022	0.00023 (J)	0.00128		0.0007 (J)					
5/25/2022									0.00126
5/31/2022					0.00033 (J)	0.0012	0.00139	0.00156	
10/31/2022	0.000391 (J)		0.000756 (J)	0.000692 (J)					
11/1/2022					0.000212 (J)	0.00209	0.0012	0.00111	0.00131
11/2/2022		0.001 (J)							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.005		<0.005					
3/2/2016	<0.005				0.00235 (J)		<0.005		<0.005
4/19/2016	<0.005								
4/20/2016		<0.005		<0.005	0.00212 (J)		<0.005		<0.005
6/8/2016	<0.005	<0.005		<0.005	0.00276 (J)		<0.005		<0.005
8/30/2016									<0.005
8/31/2016	<0.005	<0.005		<0.005	0.00261 (J)		<0.005		
10/18/2016									<0.005
10/19/2016	<0.005	<0.005		<0.005	0.00256 (J)		<0.005		
1/31/2017	<0.005						<0.005		<0.005
2/1/2017		<0.005		<0.005	0.00231 (J)				
5/2/2017	<0.005								<0.005
5/3/2017		<0.005		<0.005	0.00279 (J)		<0.005		
6/6/2017	<0.005								<0.005
6/7/2017		<0.005		<0.005	0.00262 (J)		<0.005		
1/22/2018							<0.005		
1/23/2018		<0.005		<0.005	0.00248 (J)				<0.005
1/24/2018	<0.005								
5/1/2018	<0.005								
5/2/2018		<0.005		<0.005	0.00271 (J)		<0.005		<0.005
11/27/2018									<0.005
11/28/2018	<0.005	<0.005		<0.005	0.00274 (J)		<0.005		
1/8/2019			<0.005			<0.005			
5/29/2019	<0.005			<0.005	0.00358 (J)		<0.005		<0.005
5/30/2019		<0.005							
9/30/2019		<0.005		<0.005					
10/1/2019	<0.005		<0.005		0.00303 (J)		<0.005		<0.005
10/2/2019						<0.005			
3/30/2020	<0.005								
3/31/2020		<0.005	<0.005	<0.005	0.00364 (J)	<0.005	<0.005		<0.005
4/1/2020									
9/1/2020	<0.005	<0.005	<0.005	<0.005	0.0031 (J)	<0.005	<0.005		
9/2/2020								<0.005	<0.005
5/11/2021		0.000636							
5/18/2021	0.000996		0.000648		0.00336	0.00237			
5/19/2021				0.00257			0.00113	0.000827	
5/25/2021									0.00124
10/26/2021							0.00122	0.00114	
10/27/2021		0.00065	0.00061						0.00125
11/1/2021	0.00091				0.0037	0.00231			
11/2/2021				0.00118					
5/23/2022				0.00118	0.00428	0.00255			
5/24/2022	0.00091	0.00054	0.00062				0.00189		
5/25/2022								0.00119	0.00125
11/1/2022			0.000667	0.00105	0.00406	0.00239	0.00274	0.00112	0.0012
11/2/2022	0.00102	0.000605							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.0279
4/19/2016		0.0269
4/20/2016		
6/8/2016		0.0293
8/30/2016		
8/31/2016		0.0272
10/18/2016		
10/19/2016		0.0285
1/31/2017		0.025
2/1/2017		
5/2/2017		0.0274
5/3/2017		
6/6/2017		0.0285
6/7/2017		
1/22/2018		0.0273
1/23/2018		
1/24/2018		
5/1/2018		0.0298
5/2/2018		
11/27/2018		0.0311
11/28/2018		
1/8/2019		
5/29/2019		0.0343
5/30/2019		
9/30/2019		
10/1/2019		0.0336
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.0344
9/1/2020		
9/2/2020	0.00444 (J)	0.0385
5/11/2021		0.0349
5/18/2021		
5/19/2021		
5/25/2021	0.00271	
10/26/2021	0.00419	0.0347
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.00327	
5/25/2022		0.0364
11/1/2022	0.00405	0.0357
11/2/2022		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		0.0212							0.00842 (J)
4/19/2016		0.018							0.008 (J)
6/8/2016		0.0176							0.00796 (J)
8/31/2016		0.0134							0.00752 (J)
10/19/2016		0.0193							0.00778 (J)
1/31/2017		0.017							0.00647 (J)
5/2/2017		0.0166							0.00686 (J)
6/6/2017		0.0172							0.00694 (J)
1/23/2018		0.00621 (J)							
1/24/2018									0.00592 (J)
5/1/2018		0.0189							0.00693 (J)
11/27/2018		0.0182							0.0066
1/8/2019								0.00911	
3/20/2019						<0.005			
5/29/2019		0.0206							0.00745
7/31/2019	0.0632			<0.005			<0.005		
10/1/2019	0.0629	0.0107				<0.005	<0.005		0.00696
10/2/2019				0.0033 (J)				0.00289 (J)	
3/30/2020								<0.005	
3/31/2020		0.0199							0.00716
4/1/2020				<0.005		0.013			
8/31/2020									0.00751
9/1/2020	0.0665			0.00258 (J)	0.022	<0.005	<0.005	0.00407 (J)	
9/2/2020		0.0192	0.0163						
5/17/2021				0.0013					
5/18/2021					0.0197			0.00483	0.00746
5/19/2021		0.0182	0.0153			0.00109			
5/25/2021	0.0694						0.00294		
10/25/2021				0.00371	0.00915	0.00101	0.00501		
10/26/2021	0.0757		0.0159						
11/1/2021		0.0139						0.00578	0.00706
5/23/2022						0.00108			
5/24/2022	0.0764						0.00513	0.00765	0.00582
5/25/2022		0.0155	0.0139	0.0013	0.0685				
10/31/2022				0.00156	0.0967	0.000688	0.00053		
11/1/2022		0.00812	0.0185					0.00928	
11/2/2022	0.0748								0.00497

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.00433 (J)	
10/1/2019	0.00431 (J)	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.00541	
8/31/2020		
9/1/2020	0.0046 (J)	0.012
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.00426	0.0173
5/25/2021		
10/25/2021		
10/26/2021	0.00447	
11/1/2021		0.0236
5/23/2022	0.00423	
5/24/2022		0.0264
5/25/2022		
10/31/2022	0.00455	
11/1/2022		0.0309
11/2/2022		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.005	<0.005	
3/2/2016						<0.005			
4/19/2016						<0.005	<0.005		
4/20/2016								<0.005	
6/7/2016						<0.005	0.00424 (J)	<0.005	
8/30/2016							0.00262 (J)	<0.005	
8/31/2016						<0.005			
10/18/2016								<0.005	
10/19/2016						<0.005	0.00469 (J)		
1/31/2017						<0.005	0.0127 (O)	<0.005	
5/2/2017						<0.005	0.00891 (J)		
5/3/2017								<0.005	
6/6/2017						<0.005	0.00217 (J)		
6/7/2017								<0.005	
1/24/2018						<0.005	<0.005	<0.005	
5/1/2018						<0.005	0.0126 (O)		
5/2/2018								<0.005	
11/27/2018						<0.005	0.00363 (J)	<0.005	
11/28/2018									
1/8/2019				0.00243 (J)					<0.005
5/29/2019						<0.005	0.00549	<0.005	
7/31/2019	0.00233 (J)	0.0031 (J)							
9/30/2019									
10/1/2019	0.00268 (J)	0.00201 (J)				<0.005	<0.005	<0.005	
10/2/2019				0.00513					<0.005
3/30/2020									
3/31/2020				0.00528		<0.005	0.0205	<0.005	<0.005
4/1/2020		0.0206							
9/1/2020	0.00294 (J)	0.0273	<0.0002			<0.005	0.00657	<0.005	<0.005
9/2/2020				0.0061	0.00246 (J)				
5/17/2021			0.000217						
5/18/2021						0.000196 (J)	0.018		
5/24/2021		0.00682			0.00156				
5/25/2021	0.00264			0.00542					
10/26/2021	0.00285	0.00495	<0.0002	0.00591					
10/27/2021									
11/1/2021						0.00016 (J)	0.00478		
11/2/2021					0.00146			0.00197	0.00013 (J)
5/24/2022	0.0027			0.00571					
5/25/2022		0.002	<0.0002		0.00132	0.00028	0.00455	0.00184	0.00106
10/31/2022	0.00274				0.00135		0.00319	0.0015	9.5E-05 (J)
11/1/2022		0.00076	0.000236			0.000152 (J)			
11/2/2022				0.00575					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.005	0.011
3/2/2016		
4/19/2016	<0.005	
4/20/2016		0.0148
6/7/2016	<0.005	0.0172
8/30/2016	<0.005	
8/31/2016		0.0175
10/18/2016		
10/19/2016	<0.005	0.0189
1/31/2017	<0.005	0.0165
5/2/2017		
5/3/2017	<0.005	0.0172
6/6/2017		
6/7/2017	<0.005	0.0173
1/24/2018	<0.005	0.0158
5/1/2018		
5/2/2018	<0.005	0.0169
11/27/2018		
11/28/2018	<0.005	0.0178
1/8/2019		
5/29/2019	<0.005	0.0197
7/31/2019		
9/30/2019		0.0186
10/1/2019	<0.005	
10/2/2019		
3/30/2020		0.0172
3/31/2020	<0.005	
4/1/2020		
9/1/2020		
9/2/2020	<0.005	0.0197
5/17/2021	0.000678	
5/18/2021		0.0189
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		0.0206
11/1/2021		
11/2/2021	0.0006	
5/24/2022		0.023
5/25/2022	0.00098	
10/31/2022	0.000588	0.00239
11/1/2022		
11/2/2022		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					0.0035 (J)	<0.01	<0.005	<0.005	
3/1/2016		<0.005		<0.005					
4/19/2016					0.0038 (J)	<0.01	<0.005	<0.005	
4/20/2016		<0.005		<0.005					
6/6/2016					0.00427 (J)				<0.005
6/7/2016		<0.005				<0.01	<0.005		
6/8/2016				<0.005					
8/30/2016		<0.005			0.00348 (J)	<0.01	<0.005	<0.005	
8/31/2016				<0.005					
10/18/2016		<0.005			0.00338 (J)	<0.01	<0.005	<0.005	
10/19/2016				<0.005					
1/31/2017		<0.005			0.00308 (J)	<0.01	<0.005	<0.005	
2/1/2017				<0.005					
5/2/2017					0.00314 (J)	<0.01	<0.005	<0.005	
5/3/2017		<0.005		<0.005					
6/6/2017					0.0036 (J)	<0.01	<0.005	<0.005	
6/7/2017		<0.005		<0.005					
1/23/2018				<0.005	0.00586 (J)	0.0021 (J)	<0.005	<0.005	
1/24/2018		<0.005							
5/1/2018						<0.01	<0.005	<0.005	
5/2/2018		<0.005		<0.005	0.00702 (J)				
11/26/2018									<0.005
11/27/2018		<0.005			0.0157		<0.005		
11/28/2018				<0.005					
1/9/2019	<0.005		<0.005						
5/28/2019									<0.005
5/29/2019		<0.005			0.0109	0.00248 (J)	<0.005		
5/30/2019				<0.005					
9/30/2019		<0.005		<0.005					
10/1/2019	<0.005		<0.005						
10/2/2019					0.0129	0.00244 (J)	<0.005	<0.005	
3/30/2020	<0.005	<0.005	<0.005						
3/31/2020				<0.005	0.0123	0.00224 (J)	<0.005	<0.005	
9/2/2020	<0.005	<0.005	<0.005	<0.005					<0.005
9/8/2020									<0.005
9/9/2020					0.00697	0.00219 (J)	<0.005		
5/11/2021		0.000778				0.00194	0.00142	0.00137	
5/12/2021					0.00611				
5/18/2021	0.000139 (J)		0.000882	0.000725					
5/24/2021									0.000422
10/18/2021							0.00146	0.00139	
10/19/2021					0.00517	0.00192			
10/26/2021		0.00079	0.00088						
10/27/2021	0.00013 (J)			0.0007					
11/2/2021									0.00037
5/23/2022			0.00092						
5/24/2022	0.00011 (J)	0.00067		0.00069					
5/25/2022									0.00028
5/31/2022					0.00487	0.00194	0.00149	0.0015	
10/31/2022	7.8E-05 (J)		0.000614	0.000698					
11/1/2022					0.00394	0.0016	0.00143	0.00169	0.000337
11/2/2022		0.00059							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<3		<3					
3/2/2016	<3				<3		<3		<3
4/19/2016	3.0268								
4/20/2016		<3		0.667	<3		0.398		<3
6/7/2016					1.08		0.812		
6/8/2016	1.59	1.06		0.704					0.631
8/30/2016									0.693
8/31/2016	2.19	0.871		0.726	0.528		0.46 (U)		
10/18/2016									0.626
10/19/2016		1.575 (D)		0.737	0.81		0.601		
1/31/2017	1.23						1.1		0.0723 (U)
2/1/2017		1		0.766	1.11				
5/2/2017	1.62								0.363 (U)
5/3/2017		1.07		0.515	0.639		0.832		
6/6/2017	1.24								0.198 (U)
6/7/2017		0.254 (U)		1.04	0.705		0.752		
1/22/2018							0.898 (U)		
1/23/2018		0.795 (U)		1.17 (U)	1.1 (U)				0.294 (U)
1/24/2018	1.96 (U)								
5/1/2018	1.6								
5/2/2018		0.405		0.505	1.11		0.752		0.522
11/27/2018									0.576
11/28/2018	1.48	0.609		0.232 (U)	0.846		0.523		
1/8/2019			1.35			1.04			
5/29/2019	2.25			0.726	2.06		1.01		0.437 (U)
5/30/2019		0.0949 (U)							
9/30/2019		0.965		0.489 (U)					
10/1/2019	2.84		1.99		0.984		1.07		1.11
10/2/2019						0.896			
3/30/2020	2.31								
3/31/2020		1.14	0.957	0.462 (U)	1.26	0.923	0.725		0.941
4/1/2020									
6/17/2020								1.22	
5/11/2021		1.12 (U)							
5/18/2021	2.99		1.66		1.11	1.31			
5/19/2021				1.15			1.15	0.783 (U)	
5/25/2021									0.978 (U)
10/26/2021							1.74	1.6	
10/27/2021		1.2 (U)	1.44 (U)						0.587 (U)
11/1/2021	2.22				1.79	0.814 (U)			
11/2/2021				0.504 (U)					
5/23/2022				0.452 (U)	1.4	0.962 (U)			
5/24/2022	2.12	1.36 (U)	1.2				0.915 (U)		
5/25/2022								0.951 (U)	1.25
11/1/2022			1.34	1.03	0.672 (U)	0.816 (U)	0.569 (U)	0.933 (U)	0.528 (U)
11/2/2022	1.96	0.886 (U)							

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<3
4/19/2016		<3
4/20/2016		
6/7/2016		
6/8/2016		0.557
8/30/2016		
8/31/2016		0.765
10/18/2016		
10/19/2016		0.654
1/31/2017		0.402 (U)
2/1/2017		
5/2/2017		0.578
5/3/2017		
6/6/2017		0.128 (U)
6/7/2017		
1/22/2018		0.768 (U)
1/23/2018		
1/24/2018		
5/1/2018		0.651
5/2/2018		
11/27/2018		0.764
11/28/2018		
1/8/2019		
5/29/2019		0.433
5/30/2019		
9/30/2019		
10/1/2019		0.988
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.527
6/17/2020	0.726	
5/11/2021		0.684 (U)
5/18/2021		
5/19/2021		
5/25/2021	0.859 (U)	
10/26/2021	1.34 (U)	1.95
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	1.26	
5/25/2022		1.3
11/1/2022	1.38	1.15
11/2/2022		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<3							<3
4/19/2016		<3							<3
6/8/2016		0.344 (U)							0.121 (U)
8/31/2016		0.582							0.348 (U)
10/19/2016		0.448							0.48
1/31/2017		0.653							0.00333 (U)
5/2/2017		0.698							0.4 (U)
6/6/2017		0.548							0.083 (U)
1/23/2018		0.98 (U)							
1/24/2018									0.404 (U)
5/1/2018		0.623							0.457
11/27/2018		0.744							0.359 (U)
1/8/2019								1.06	
5/29/2019		2.51							1.18
7/31/2019	1.09 (D)			0.621 (D)			0.272 (UD)		
10/1/2019	1.51	0.443 (U)				0.6	0.817		0.284 (U)
10/2/2019				1.14				1.03	
3/30/2020								0.579	
3/31/2020		0.341 (U)							0.699
4/1/2020				0.797		1.05			
5/12/2020	1.67						0.691		
6/16/2020			0.642		2.17				
6/17/2020									
5/17/2021				1.64					
5/18/2021					1.05 (U)			0.814 (U)	0.72 (U)
5/19/2021		0.321 (U)	0.496 (U)			0.971 (U)			
5/25/2021	1.72						1.04 (U)		
10/25/2021				1.57	1.04 (U)	1.2	1.03 (U)		
10/26/2021	2.53		0.773 (U)						
11/1/2021		1.28						1.3 (U)	0.523 (U)
5/23/2022						1.03 (U)			
5/24/2022	1.85						1.06 (U)	2	0.732 (U)
5/25/2022		0.927 (U)	1.03 (U)	1.71	5.37				
10/31/2022				0.928 (U)	5.26	0.691 (U)	1.11		
11/1/2022		1.09	0.705 (U)					1.35	
11/2/2022	1.46								0.366 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
5/29/2019		
7/31/2019	0.268 (UD)	
10/1/2019	1.22	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.968	
5/12/2020		
6/16/2020		
6/17/2020		0.767
5/17/2021		
5/18/2021		
5/19/2021	1.03 (U)	1.43
5/25/2021		
10/25/2021		
10/26/2021	1.28 (U)	
11/1/2021		1.48
5/23/2022	0.657 (U)	
5/24/2022		0.97 (U)
5/25/2022		
10/31/2022	1.15	
11/1/2022		0.873
11/2/2022		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<3	<3	
3/2/2016						<3			
4/19/2016						<3	<3		
4/20/2016								3.0801	
6/7/2016						0.455	0.287 (U)	1.5	
8/30/2016							0.585	1.17	
8/31/2016						0.329 (U)			
10/18/2016								1.93	
10/19/2016						0.536	1.85		
1/31/2017						0.496	0.25 (U)	1	
5/2/2017						0.149 (U)	0.391 (U)		
5/3/2017								1.48	
6/6/2017						0.191 (U)	0.183 (U)		
6/7/2017								0.915	
1/24/2018						0.543 (U)	0.622 (U)	1.74 (U)	
5/1/2018						0.372 (U)	0.0917 (U)		
5/2/2018								0.58	
11/27/2018						0.591	0.695	1.43	
11/28/2018									
1/8/2019				1.49					0.298 (U)
5/29/2019						2.31	0.947	2.16	
7/31/2019	0.448 (D)	0.331 (UD)							
9/30/2019									
10/1/2019	0.508	1.05				1.52	0.7	2.14	
10/2/2019				1.24					0.206 (U)
3/30/2020									
3/31/2020				0.577		0.478 (U)	0.323 (U)	0.754	0.024 (U)
4/1/2020		0.618							
5/12/2020	0.61								
6/16/2020			0.752 (U)						
6/17/2020					0.554				
5/17/2021			0.374 (U)						
5/18/2021						0.749 (U)	0.734 (U)		
5/24/2021		1.1 (U)			0.545 (U)				
5/25/2021	1.26			0.695 (U)					
10/26/2021	1.52	1.13 (U)	0.285 (U)	0.987 (U)					
10/27/2021									
11/1/2021						0.688 (U)	0.888 (U)		
11/2/2021					0.707 (U)			2.06	0.158 (U)
5/24/2022	0.656 (U)			1.08 (U)					
5/25/2022		0.674 (U)	0.285 (U)		0.682 (U)	1.72	0.821 (U)	1.71	1.03 (U)
10/31/2022	0.454 (U)				0.793 (U)		0.927	0.75 (U)	0.7 (U)
11/1/2022		0.583 (U)	0.656 (U)			0.505 (U)			
11/2/2022				1.05					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<3	<3
3/2/2016		
4/19/2016	<3	
4/20/2016		<3
6/7/2016	0.353 (U)	0.555 (U)
8/30/2016	0.428 (U)	
8/31/2016		0.284 (U)
10/18/2016		
10/19/2016	0.449 (U)	0.557 (U)
1/31/2017	-0.0173 (U)	0.0949 (U)
5/2/2017		
5/3/2017	0.447	0.53
6/6/2017		
6/7/2017	0.572	-0.231 (U)
1/24/2018	1.09 (U)	0.691 (U)
5/1/2018		
5/2/2018	0.187 (U)	0.535
11/27/2018		
11/28/2018	0.478 (U)	0.62
1/8/2019		
5/29/2019	-0.276 (U)	0.244 (U)
7/31/2019		
9/30/2019		0.388 (U)
10/1/2019	0.742	
10/2/2019		
3/30/2020		0.744
3/31/2020	0.291 (U)	
4/1/2020		
5/12/2020		
6/16/2020		
6/17/2020		
5/17/2021	1.84	
5/18/2021		0.597 (U)
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		1.46 (U)
11/1/2021		
11/2/2021	0.773 (U)	
5/24/2022		1.05 (U)
5/25/2022	1.06 (U)	
10/31/2022	0.925	0.932
11/1/2022		
11/2/2022		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					2.8971 (U)	3 (U)	3 (U)	2.1138	
3/1/2016		<3		<3					
4/19/2016					3 (U)	3 (U)	3 (U)	3 (U)	
4/20/2016		<3		<3					
6/6/2016					0.841			0.757	
6/7/2016		0.853				0.652	0.342 (U)		
6/8/2016				0.837					
8/30/2016		0.669			1.74	0.411 (U)	0.702	0.992	
8/31/2016				0.917					
10/18/2016		1.32			1.47	1	0.791	0.905	
10/19/2016				1.41					
1/31/2017		0.801			0.952	0.398 (U)	0.0613 (U)	1.08	
2/1/2017				0.785					
5/2/2017					0.768	0.66	0.974	1.18	
5/3/2017		0.648		1.33					
6/6/2017					1.04	0.639	0.748	1.1	
6/7/2017		0.408 (U)		0.758					
1/23/2018				1.06 (U)	0.513 (U)	0.669 (U)	0.558 (U)	1.32 (U)	
1/24/2018		0.706 (U)							
5/1/2018						1.06	0.296 (U)	1.19	
5/2/2018		0.572		0.983	0.916				
11/26/2018								0.863	
11/27/2018		0.687			1.37	0.636	0.357 (U)		
11/28/2018				0.747					
1/9/2019	0.527		1.69						
5/28/2019								0.474 (U)	
5/29/2019		0.627 (U)			1.57	0.579 (U)	0.275 (U)		
5/30/2019				1.08					
9/30/2019		0.321 (U)		0.58					
10/1/2019	1.01		1.66						
10/2/2019					0.905	1.33	0.458 (U)	0.624 (U)	
3/30/2020	0.604	0.6	0.787						
3/31/2020				0.82	1.77	0.814	0.941	1.09	
6/17/2020									0.479
5/11/2021		0.648 (U)				0.945 (U)	0.521 (U)	0.969 (U)	
5/12/2021					0.639 (U)				
5/18/2021	0.199 (U)		0.975 (U)	0.98 (U)					
5/24/2021									0.531 (U)
10/18/2021							1.75	2.19	
10/19/2021					1.77	1.85			
10/26/2021		1.61	1.61						
10/27/2021	0.914 (U)			1.07 (U)					
11/2/2021									1.05 (U)
5/23/2022			1.13						
5/24/2022	0.619 (U)	0.733 (U)		2.11					
5/25/2022									0.527 (U)
5/31/2022					1.34	1.38	1.67	1.47	
10/31/2022	0.332 (U)		1.12	1.64					
11/1/2022					1.11	1	0.53 (U)	1.36	0.545 (U)
11/2/2022		0.503 (U)							

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		0.02 (J)		0.06 (J)					
3/2/2016	0.03 (J)				0.04 (J)		0.05 (J)		0.07 (J)
4/19/2016	0.052 (J)								
4/20/2016		0.034 (J)		0.073 (J)	0.059 (J)		0.064 (J)		0.076 (J)
6/8/2016	0.069 (J)	0.061 (J)		0.085 (J)	0.08 (J)		0.082 (J)		0.105 (J)
8/30/2016									0.083 (J)
8/31/2016	0.043 (J)	0.04 (J)		0.064 (J)	0.059 (J)		0.062 (J)		
10/18/2016									0.067 (J)
10/19/2016	<0.1	0.03 (J)		0.05 (J)	0.045 (J)		0.049 (J)		
3/21/2017	0.04 (J)								
3/22/2017		<0.125		0.05 (J)	0.04 (J)		0.05 (J)		0.06 (J)
5/2/2017	0.05 (J)								0.08 (J)
5/3/2017		0.04 (J)		0.06 (J)	0.06 (J)		0.06 (J)		
6/6/2017	0.049 (J)								0.077 (J)
6/7/2017		0.04 (J)		0.06 (J)	0.06 (J)		0.07 (J)		
9/13/2017	<0.1 (U*)			<0.1 (U*)	<0.1 (U*)		<0.1 (U*)		<0.1 (U*)
9/14/2017		0.04 (J)							
1/22/2018							0.06 (J)		
1/23/2018		<0.125		0.06 (J)	0.05 (J)				0.08 (J)
1/24/2018	0.05 (J)								
5/1/2018	0.05 (J)								
5/2/2018		<0.125		0.06 (J)	0.06 (J)		0.07 (J)		0.08 (J)
11/27/2018									0.06 (J)
11/28/2018	<0.1	<0.125		0.05 (J)	0.04 (J)		0.05 (J)		
1/8/2019			0.123			0.0729 (J)			
5/29/2019	0.0858 (J)			0.0759 (J)	0.0677 (J)		0.0679 (J)		0.0781 (J)
5/30/2019		0.0573 (J)							
9/30/2019		<0.125		0.0733 (J)					
10/1/2019	0.0744 (J)		0.0517 (J)		0.0682 (J)		0.0703 (J)		0.0885 (J)
10/2/2019						0.12			
3/30/2020	0.0726 (J)								
3/31/2020		<0.125	<0.125	0.078 (J)	0.0755 (J)	0.0828 (J)	0.0665 (J)		0.0867 (J)
4/1/2020									
9/1/2020	0.194	0.0794 (J)	0.0695 (J)	0.0841 (J)	0.0845 (J)	0.0947 (J)	0.0757 (J)		
9/2/2020								0.0864 (J)	0.0957 (J)
5/11/2021		0.105							
5/18/2021	0.0884 (J)		<0.125		0.0614 (J)	0.0783 (J)			
5/19/2021				0.0994 (J)			0.0748 (J)	0.0884 (J)	
5/25/2021									0.0957 (J)
10/26/2021							0.0641 (J)	0.096 (J)	
10/27/2021		<0.125	<0.125						0.0651 (J)
11/1/2021	0.181				0.0928 (J)	0.123			
11/2/2021				0.101					
5/23/2022				0.0709 (J)	0.0873 (J)	<0.125			
5/24/2022	0.0801 (J)	<0.125 (D)	<0.125				0.0769 (J)		
5/25/2022								<0.125	0.0733 (J)
11/1/2022			0.0602 (J)	0.0612 (J)	0.0695 (J)	0.13	0.13	0.069 (J)	0.0685 (J)
11/2/2022	0.0665 (J)	<0.125							

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.18 (J)
4/19/2016		0.21 (J)
4/20/2016		
6/8/2016		0.223 (J)
8/30/2016		
8/31/2016		0.196 (J)
10/18/2016		
10/19/2016		0.166 (J)
3/21/2017		0.18
3/22/2017		
5/2/2017		0.18
5/3/2017		
6/6/2017		0.18
6/7/2017		
9/13/2017		<0.1 (U*)
9/14/2017		
1/22/2018		0.19
1/23/2018		
1/24/2018		
5/1/2018		0.19
5/2/2018		
11/27/2018		0.18
11/28/2018		
1/8/2019		
5/29/2019		0.168
5/30/2019		
9/30/2019		
10/1/2019		0.185
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.187
9/1/2020		
9/2/2020	0.359	0.18
5/11/2021		0.214
5/18/2021		
5/19/2021		
5/25/2021	0.378	
10/26/2021	0.384	0.171
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.291	
5/25/2022		0.214
11/1/2022	0.275	0.177
11/2/2022		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		0.04 (J)							0.04 (J)
4/19/2016		0.05 (J)							0.038 (J)
6/8/2016		0.073 (J)							0.067 (J)
8/31/2016		0.051 (J)							0.05 (J)
10/19/2016		<0.125							<0.125
3/21/2017		0.04 (J)							<0.125
5/2/2017		0.05 (J)							0.04 (J)
6/6/2017		0.053 (J)							0.04 (J)
9/12/2017									0.037 (J)
9/13/2017		<0.125 (U*)							
1/23/2018		0.05 (J)							
1/24/2018									<0.125
5/1/2018		0.05 (J)							<0.125
11/27/2018		<0.125							<0.125
1/8/2019								0.0548 (J)	
3/20/2019						0.215			
5/29/2019		0.0683 (J)							<0.125
7/31/2019	0.0515 (J)			0.178			0.153		
10/1/2019	0.0931 (J)	0.0774 (J)				0.071 (J)	0.0712 (J)		<0.125
10/2/2019				0.254				0.0595 (J)	
3/30/2020								<0.125	
3/31/2020		0.0602 (J)							<0.125
4/1/2020				0.151		0.0722 (J)			
8/31/2020									<0.125
9/1/2020	0.0624 (J)			0.196	0.144	0.0784 (J)	0.0752 (J)	<0.125	
9/2/2020		<0.125	<0.125						
5/17/2021				0.148					
5/18/2021					0.16			<0.125	<0.125
5/19/2021		0.0793 (J)	<0.125			0.0886 (J)			
5/25/2021	<0.125						0.0673 (J)		
10/25/2021				0.162	0.172	0.11	<0.125		
10/26/2021	0.0808 (J)		<0.125						
11/1/2021		0.0887 (J)						<0.125	<0.125
5/23/2022						0.0857 (J)			
5/24/2022	<0.125 (D)						<0.125	<0.125	<0.125
5/25/2022		<0.125	<0.125	0.138	0.0799 (J)				
10/31/2022				0.135	0.118 (J)	0.148	<0.125		
11/1/2022		0.112 (J)	<0.125					<0.125	
11/2/2022	<0.125								0.0711 (J)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
3/21/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	0.0934 (J)	
10/1/2019	0.0838 (J)	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	0.0793 (J)	
8/31/2020		
9/1/2020	0.0954 (J)	0.106
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.0852 (J)	0.123
5/25/2021		
10/25/2021		
10/26/2021	0.114	
11/1/2021		0.14
5/23/2022	0.124 (J)	
5/24/2022		0.0811 (J)
5/25/2022		
10/31/2022	0.0822 (J)	
11/1/2022		0.0715 (J)
11/2/2022		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							0.02 (J)	0.04 (J)	
3/2/2016						0.01 (J)			
4/19/2016						0.014 (J)	0.016 (J)		
4/20/2016								0.043 (J)	
6/7/2016						0.049 (J)	0.047 (J)	0.075 (J)	
8/30/2016							0.035 (J)	0.057 (J)	
8/31/2016						0.034 (J)			
10/18/2016								0.049 (J)	
10/19/2016						0.023 (J)	0.025 (J)		
3/21/2017						<0.125	<0.125		
3/22/2017								0.04 (J)	
5/2/2017						<0.125	<0.125		
5/3/2017								0.05 (J)	
6/6/2017						<0.125	<0.125		
6/7/2017								0.05 (J)	
9/12/2017						<0.125	<0.125		
9/14/2017								0.06 (J)	
1/24/2018						<0.125	<0.125	0.05 (J)	
5/1/2018						<0.125	<0.125		
5/2/2018								0.05 (J)	
11/27/2018						<0.125	<0.125	<0.125	
11/28/2018									
1/8/2019				0.147					<0.125
5/29/2019						<0.125	<0.125	0.0923 (J)	
7/31/2019	0.257	0.0766 (J)							
9/30/2019									
10/1/2019	0.268	0.0804 (J)				<0.125	<0.125	0.0557 (J)	
10/2/2019				0.183					0.0777 (J)
3/30/2020									
3/31/2020				0.148		<0.125	<0.125	0.0735 (J)	<0.125
4/1/2020		0.0607 (J)							
9/1/2020	0.301	0.0919 (J)	0.401			<0.125	<0.125	0.0921 (J)	0.0807 (J)
9/2/2020				0.158	<0.125				
5/17/2021			0.379						
5/18/2021						<0.125	<0.125		
5/24/2021		0.0734 (J)			<0.125				
5/25/2021	0.282			0.156					
10/26/2021	0.323	0.0709 (J)	0.445	0.158					
10/27/2021									
11/1/2021						<0.125	<0.125		
11/2/2021					<0.125			0.0964 (J)	0.0627 (J)
5/24/2022	0.318			0.135					
5/25/2022		<0.125	0.385		<0.125	<0.125	<0.125	<0.125	<0.125
10/31/2022	0.257				<0.125		<0.125	0.0614 (J)	<0.125
11/1/2022		<0.125	0.222			<0.125			
11/2/2022				0.131					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.125	0.06 (J)
3/2/2016		
4/19/2016	0.016 (J)	
4/20/2016		0.078 (J)
6/7/2016	0.048 (J)	0.101 (J)
8/30/2016	0.034 (J)	
8/31/2016		0.086 (J)
10/18/2016		
10/19/2016	0.023 (J)	0.075 (J)
3/21/2017		
3/22/2017	<0.125	0.06 (J)
5/2/2017		
5/3/2017	<0.125	0.08 (J)
6/6/2017		
6/7/2017	<0.125	0.08 (J)
9/12/2017		
9/14/2017	<0.125	0.07 (J)
1/24/2018	<0.125	0.09 (J)
5/1/2018		
5/2/2018	<0.125	0.08 (J)
11/27/2018		
11/28/2018	<0.125	0.07 (J)
1/8/2019		
5/29/2019	<0.125	0.0937 (J)
7/31/2019		
9/30/2019		0.0925 (J)
10/1/2019	<0.125	
10/2/2019		
3/30/2020		0.0933 (J)
3/31/2020	<0.125	
4/1/2020		
9/1/2020		
9/2/2020	<0.125	0.109
5/17/2021	<0.125	
5/18/2021		0.11
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		0.0823 (J)
11/1/2021		
11/2/2021	<0.125	
5/24/2022		0.0724 (J)
5/25/2022	<0.125	
10/31/2022	<0.125	0.381
11/1/2022		
11/2/2022		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					0.03 (J)	0.02 (J)	0.02 (J)	0.02 (J)	
3/1/2016		0.03 (J)		0.04 (J)					
4/19/2016					0.023 (J)	0.021 (J)	0.016 (J)	0.015 (J)	
4/20/2016		0.043 (J)		0.052 (J)					
6/6/2016					0.062 (J)			0.05 (J)	
6/7/2016		0.069 (J)				0.06 (J)	0.052 (J)		
6/8/2016				0.077 (J)					
8/30/2016		0.052 (J)			0.053 (J)	0.05 (J)	0.038 (J)	0.036 (J)	
8/31/2016				0.056 (J)					
10/18/2016		0.042 (J)			0.042 (J)	0.04 (J)	0.03 (J)	0.025 (J)	
10/19/2016				0.045 (J)					
3/20/2017					<0.125	<0.125	<0.125	<0.125	
3/22/2017		<0.125		0.05 (J)					
5/2/2017					0.04 (JD)	0.04 (JD)	0.1 (D)	0.1 (D)	
5/3/2017		0.05 (J)		0.06 (J)					
6/6/2017					0.1 (D)	0.04 (JD)	0.1 (D)	0.1 (D)	
6/7/2017		0.05 (J)		0.06 (J)					
9/12/2017									<0.125
9/13/2017					0.04 (J)	0.043 (J)	<0.125		
9/14/2017		0.05 (J)		0.07 (J)					
1/23/2018				0.06 (J)	<0.125	0.04 (J)	<0.125	<0.125	
1/24/2018		0.04 (J)							
5/1/2018						0.04 (J)	<0.125	<0.125	
5/2/2018		0.04 (J)		0.05 (J)	0.04 (J)				
11/26/2018									<0.125
11/27/2018		<0.125			<0.125	<0.125	<0.125		
11/28/2018				0.04 (J)					
1/9/2019	0.139		0.0831 (J)						
5/28/2019									<0.125
5/29/2019		0.0958 (J)			0.0502 (J)	<0.125	<0.125		
5/30/2019				0.0763 (J)					
9/30/2019		0.0559 (J)		0.0679 (J)					
10/1/2019	0.0871 (J)		0.0832 (J)						
10/2/2019					<0.125	<0.125	<0.125	<0.125	
3/30/2020	0.127	0.0701 (J)	0.0935 (J)						
3/31/2020				0.0655 (J)	<0.125	<0.125	<0.125	<0.125	
9/2/2020	0.126	<0.125	0.098 (J)	0.0804 (J)					<0.125
9/8/2020									<0.125
9/9/2020					<0.125	<0.125	<0.125	<0.125	
5/11/2021		0.094 (J)				<0.125	<0.125	<0.125	
5/12/2021					<0.125				
5/18/2021	0.112		0.0958 (J)	0.0709 (J)					
5/24/2021									<0.125
10/18/2021							<0.125	<0.125	
10/19/2021					<0.125	<0.125			
10/26/2021		<0.125	0.107						
10/27/2021	0.0795 (J)			0.0803 (J)					
11/2/2021									<0.125
5/23/2022			0.108 (J)						
5/24/2022	0.0869 (J)	0.0713 (J)		<0.125					
5/25/2022									<0.125
5/31/2022					<0.125	<0.125	<0.125	<0.125	

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
10/31/2022	0.428		0.0963 (J)	0.0788 (J)					
11/1/2022					<0.125	<0.125	<0.125	<0.125	<0.125
11/2/2022		<0.125							

Time Series

Constituent: Lead (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.000203		<0.005					
3/2/2016	<0.0002				<0.000203		<0.0002		<0.005
4/19/2016	<0.0002								
4/20/2016		<0.000203		<0.005	<0.000203		<0.0002		<0.005
6/8/2016	<0.0002	<0.000203		<0.005	<0.000203		<0.0002		<0.005
8/30/2016									<0.005
8/31/2016	<0.0002	<0.000203		<0.005	<0.000203		<0.0002		
10/18/2016									<0.005
10/19/2016	<0.0002	<0.000203		<0.005	<0.000203		<0.0002		
1/31/2017	<0.0002						<0.0002		<0.005
2/1/2017		<0.000203		<0.005	<0.000203				
5/2/2017	<0.0002								<0.005
5/3/2017		<0.000203		<0.005	<0.000203		<0.0002		
6/6/2017	<0.0002								<0.005
6/7/2017		<0.000203		<0.005	<0.000203		<0.0002		
1/22/2018							<0.0002		
1/23/2018		<0.000203		<0.005	<0.000203				<0.005
1/24/2018	<0.0002								
5/1/2018	<0.0002								
5/2/2018		<0.000203		<0.005	<0.000203		<0.0002		<0.005
11/27/2018									<0.005
11/28/2018	<0.0002	<0.000203		<0.005	<0.000203		<0.0002		
1/8/2019			<0.000203			<0.000203			
5/29/2019	<0.0002			<0.005	<0.000203		<0.0002		<0.005
5/30/2019		<0.000203							
9/30/2019		<0.000203		<0.005					
10/1/2019	<0.0002		<0.000203		<0.000203		<0.0002		<0.005
10/2/2019						<0.000203			
3/30/2020	<0.0002								
3/31/2020		<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.0002		<0.005
4/1/2020									
9/1/2020	<0.0002	<0.000203	<0.000203	<0.005	<0.000203	<0.000203	<0.0002		
9/2/2020								<0.000203	<0.005
5/11/2021		<0.000203							
5/18/2021	<0.0002		<0.000203		0.000326	8.16E-05 (J)			
5/19/2021				0.000102 (J)			<0.0002	<0.000203	
5/25/2021									7.64E-05 (J)
10/26/2021							<0.0002	<0.000203	
10/27/2021		<0.000203	<0.000203						9E-05 (J)
11/1/2021	<0.0002				0.00029	<0.000203			
11/2/2021				0.00013 (J)					
5/23/2022				9E-05 (J)	0.00018 (J)	<0.000203			
5/24/2022	<0.0002	<0.000203	<0.000203				0.00015 (J)		
5/25/2022								<0.000203	0.0001 (J)
11/1/2022			<0.000203	7.8E-05 (J)	<0.000203	<0.000203	0.000151 (J)	<0.000203	8.3E-05 (J)
11/2/2022	9.2E-05 (J)	<0.000203							

Time Series

Constituent: Lead (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.000203
4/19/2016		<0.000203
4/20/2016		
6/8/2016		<0.000203
8/30/2016		
8/31/2016		<0.000203
10/18/2016		
10/19/2016		<0.000203
1/31/2017		<0.000203
2/1/2017		
5/2/2017		<0.000203
5/3/2017		
6/6/2017		<0.000203
6/7/2017		
1/22/2018		<0.000203
1/23/2018		
1/24/2018		
5/1/2018		<0.000203
5/2/2018		
11/27/2018		<0.000203
11/28/2018		
1/8/2019		
5/29/2019		<0.000203
5/30/2019		
9/30/2019		
10/1/2019		<0.000203
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.000203
9/1/2020		
9/2/2020	<0.000203	<0.000203
5/11/2021		<0.000203
5/18/2021		
5/19/2021		
5/25/2021	7.24E-05 (J)	
10/26/2021	<0.000203	<0.000203
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.000203	
5/25/2022		<0.000203
11/1/2022	<0.000203	<0.000203
11/2/2022		

Time Series

Constituent: Lead (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.000203							<0.000203
4/19/2016		<0.000203							<0.000203
6/8/2016		<0.000203							<0.000203
8/31/2016		<0.000203							<0.000203
10/19/2016		<0.000203							<0.000203
1/31/2017		<0.000203							<0.000203
5/2/2017		<0.000203							<0.000203
6/6/2017		<0.000203							<0.000203
1/23/2018		<0.000203							<0.000203
1/24/2018									<0.000203
5/1/2018		<0.000203							<0.000203
11/27/2018		<0.000203							<0.000203
1/8/2019								<0.000203	
3/20/2019						<0.000203			
5/29/2019		<0.000203							<0.000203
7/31/2019	<0.000203			<0.000203			<0.000203		
10/1/2019	<0.000203	<0.000203				<0.000203	<0.000203		<0.000203
10/2/2019				<0.000203				<0.000203	
3/30/2020								<0.000203	
3/31/2020		<0.000203							<0.000203
4/1/2020				<0.000203		<0.000203			
8/31/2020									<0.000203
9/1/2020	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
9/2/2020		<0.000203	<0.000203						
5/17/2021				9.09E-05 (J)					
5/18/2021					0.000137 (J)			<0.000203	<0.000203
5/19/2021		0.000191 (J)	<0.000203			<0.000203			
5/25/2021	<0.000203						<0.000203		
10/25/2021				<0.000203	<0.000203	<0.000203	<0.000203		
10/26/2021	<0.000203		<0.000203						
11/1/2021		<0.000203						<0.000203	<0.000203
5/23/2022						<0.000203			
5/24/2022	0.00011 (J)						<0.000203	<0.000203	<0.000203
5/25/2022		<0.000203	<0.000203	<0.000203	7E-05 (J)				
10/31/2022				<0.000203	<0.000203	<0.000203	<0.000203		
11/1/2022		<0.000203	<0.000203					<0.000203	
11/2/2022	<0.000203								<0.000203

Time Series

Constituent: Lead (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.000203	
10/1/2019	<0.000203	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.000203	
8/31/2020		
9/1/2020	<0.000203	<0.000203
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.000224	<0.000203
5/25/2021		
10/25/2021		
10/26/2021	<0.000203	
11/1/2021		<0.000203
5/23/2022	<0.000203	
5/24/2022		<0.000203
5/25/2022		
10/31/2022	<0.000203	
11/1/2022		<0.000203
11/2/2022		

Time Series

Constituent: Lead (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.005	<0.000203	
3/2/2016						<0.000203			
4/19/2016						<0.000203	<0.005		
4/20/2016								<0.000203	
6/7/2016						<0.000203	<0.005	<0.000203	
8/30/2016							<0.005	<0.000203	
8/31/2016						<0.000203			
10/18/2016								<0.000203	
10/19/2016						<0.000203	<0.005		
1/31/2017						<0.000203	<0.005	<0.000203	
5/2/2017						<0.000203	<0.005		
5/3/2017								<0.000203	
6/6/2017						<0.000203	<0.005		
6/7/2017								<0.000203	
1/24/2018						<0.000203	<0.005	<0.000203	
5/1/2018						<0.000203	<0.005		
5/2/2018								<0.000203	
11/27/2018						<0.000203	<0.005	<0.000203	
11/28/2018									
1/8/2019				<0.000203					<0.000203
5/29/2019						<0.000203	<0.005	<0.000203	
7/31/2019	<0.000203	<0.000203							
9/30/2019									
10/1/2019	<0.000203	<0.000203				<0.000203	<0.005	<0.000203	
10/2/2019				<0.000203					<0.000203
3/30/2020									
3/31/2020				<0.000203		<0.000203	<0.005	<0.000203	<0.000203
4/1/2020		<0.000203							
9/1/2020	<0.000203	<0.000203	<0.000203			<0.000203	<0.005	<0.000203	<0.000203
9/2/2020				<0.000203	<0.000203				
5/17/2021			0.000216						
5/18/2021						<0.000203	0.00013 (J)		
5/24/2021		<0.000203			<0.000203				
5/25/2021	<0.000203			<0.000203					
10/26/2021	<0.000203	<0.000203	0.0001 (J)	<0.000203					
10/27/2021									
11/1/2021						<0.000203	7E-05 (J)		
11/2/2021					<0.000203			<0.000203	<0.000203
5/24/2022	<0.000203			<0.000203					
5/25/2022		<0.000203	0.00012 (J)		<0.000203	<0.000203	0.00018 (J)	<0.000203	<0.000203
10/31/2022	<0.000203				<0.000203		0.000144 (J)	<0.000203	<0.000203
11/1/2022		<0.000203	<0.000203			<0.000203			
11/2/2022				<0.000203					

Time Series

Constituent: Lead (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.005	<0.000203
3/2/2016		
4/19/2016	<0.005	
4/20/2016		<0.000203
6/7/2016	<0.005	<0.000203
8/30/2016	<0.005	
8/31/2016		<0.000203
10/18/2016		
10/19/2016	<0.005	<0.000203
1/31/2017	<0.005	<0.000203
5/2/2017		
5/3/2017	<0.005	<0.000203
6/6/2017		
6/7/2017	<0.005	<0.000203
1/24/2018	<0.005	<0.000203
5/1/2018		
5/2/2018	<0.005	<0.000203
11/27/2018		
11/28/2018	<0.005	<0.000203
1/8/2019		
5/29/2019	0.00185 (J)	<0.000203
7/31/2019		
9/30/2019		<0.000203
10/1/2019	0.00545	
10/2/2019		
3/30/2020		<0.000203
3/31/2020	0.00276 (J)	
4/1/2020		
9/1/2020		
9/2/2020	0.00171 (J)	<0.000203
5/17/2021	0.00162	
5/18/2021		<0.000203
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		<0.000203
11/1/2021		
11/2/2021	0.00336	
5/24/2022		<0.000203
5/25/2022	0.0112	
10/31/2022	0.00148	<0.000203
11/1/2022		
11/2/2022		

Time Series

Constituent: Lead (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.005	<0.005	<0.000203	<0.005	
3/1/2016		<0.000203		<0.000203					
4/19/2016					<0.005	<0.005	<0.000203	<0.005	
4/20/2016		<0.000203		<0.000203					
6/6/2016					<0.005			<0.005	
6/7/2016		<0.000203				<0.005	<0.000203		
6/8/2016				<0.000203					
8/30/2016		<0.000203			<0.005	<0.005	<0.000203	<0.005	
8/31/2016				<0.000203					
10/18/2016		<0.000203			<0.005	<0.005	<0.000203	<0.005	
10/19/2016				<0.000203					
1/31/2017		<0.000203			<0.005	<0.005	<0.000203	<0.005	
2/1/2017				<0.000203					
5/2/2017					<0.005	<0.005	<0.000203	<0.005	
5/3/2017		<0.000203		<0.000203					
6/6/2017					<0.005	<0.005	<0.000203	<0.005	
6/7/2017		<0.000203		<0.000203					
1/23/2018				<0.000203	<0.005	<0.005	<0.000203	<0.005	
1/24/2018		<0.000203							
5/1/2018						<0.005	<0.000203	<0.005	
5/2/2018		<0.000203		<0.000203	<0.005				
11/26/2018								<0.005	
11/27/2018		<0.000203			<0.005	<0.005	<0.000203		
11/28/2018				<0.000203					
1/9/2019	<0.0002		<0.000203						
5/28/2019								<0.005	
5/29/2019		<0.000203			<0.005	<0.005	<0.000203		
5/30/2019				0.00108 (J)					
9/30/2019		<0.000203		<0.000203					
10/1/2019	<0.0002		<0.000203						
10/2/2019					<0.005	<0.005	<0.000203	<0.005	
3/30/2020	<0.0002	<0.000203	<0.000203						
3/31/2020				<0.000203	<0.005	<0.005	<0.000203	0.00126 (J)	
9/2/2020	<0.0002	<0.000203	<0.000203	<0.000203					<0.000203
9/8/2020								<0.005	
9/9/2020					<0.005	<0.005	<0.000203		
5/11/2021		<0.000203				0.000118 (J)	<0.000203	0.000159 (J)	
5/12/2021					9.79E-05 (J)				
5/18/2021	<0.0002		<0.000203	<0.000203					
5/24/2021									<0.000203
10/18/2021							<0.000203	0.00012 (J)	
10/19/2021					0.00012 (J)	0.0001 (J)			
10/26/2021		<0.000203	<0.000203						
10/27/2021	<0.0002			<0.000203					
11/2/2021									<0.000203
5/23/2022			<0.000203						
5/24/2022	<0.0002	<0.000203		<0.000203					
5/25/2022									<0.000203
5/31/2022					8E-05 (J)	8E-05 (J)	<0.000203	0.00017 (J)	
10/31/2022	0.000114 (J)		<0.000203	<0.000203					
11/1/2022					0.00017 (J)	0.000411	<0.000203	8.6E-05 (J)	<0.000203
11/2/2022		<0.000203							

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.02		<0.02					
3/2/2016	<0.02				<0.02		<0.02		<0.02
4/19/2016	<0.02								
4/20/2016		<0.02		<0.02	<0.02		<0.02		<0.02
6/8/2016	<0.02	<0.02		<0.02	<0.02		<0.02		<0.02
8/30/2016									<0.02
8/31/2016	<0.02	<0.02		<0.02	<0.02		<0.02		
10/18/2016									<0.02
10/19/2016	<0.02	<0.02		<0.02	<0.02		<0.02		
1/31/2017	<0.02						<0.02		<0.02
2/1/2017		<0.02		<0.02	<0.02				
5/2/2017	<0.02								<0.02
5/3/2017		<0.02		<0.02	<0.02		<0.02		
6/6/2017	<0.02								<0.02
6/7/2017		<0.02		<0.02	<0.02		<0.02		
1/22/2018							<0.02		
1/23/2018		<0.02		<0.02	<0.02				<0.02
1/24/2018	<0.02								
5/1/2018	<0.02								
5/2/2018		<0.02		0.0384 (J)	<0.02		<0.02		<0.02
11/27/2018									<0.02
11/28/2018	<0.02	<0.02		0.0262	<0.02		<0.02		
1/8/2019			0.0313			0.0148 (J)			
5/29/2019	<0.02			0.0321	<0.02		<0.02		<0.02
5/30/2019		<0.02							
9/30/2019		<0.02		0.0228					
10/1/2019	<0.02		<0.02		<0.02		<0.02		<0.02
10/2/2019						<0.02			
3/30/2020	<0.02								
3/31/2020		<0.02	<0.02	0.022	<0.02	<0.02	<0.02		<0.02
4/1/2020									
9/1/2020	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
9/2/2020								<0.01999956	<0.02
5/11/2021		<0.02							
5/18/2021	<0.02		<0.02		<0.02	<0.02			
5/19/2021				0.00754 (J)			<0.02	<0.01999956	
5/25/2021									<0.02
10/26/2021							<0.02	0.0484	
10/27/2021		<0.02	<0.02						<0.02
11/1/2021	<0.02				<0.02	<0.02			
11/2/2021				<0.02					
5/23/2022				0.0269	<0.02	<0.02			
5/24/2022	<0.02	<0.02	<0.02				<0.02		
5/25/2022								0.0318	<0.02
11/1/2022			<0.02	0.0182 (J)	<0.02	<0.02	<0.02	0.0331	<0.02
11/2/2022	<0.02	<0.02							

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.02
4/19/2016		<0.02
4/20/2016		
6/8/2016		<0.02
8/30/2016		
8/31/2016		<0.02
10/18/2016		
10/19/2016		<0.02
1/31/2017		<0.02
2/1/2017		
5/2/2017		<0.02
5/3/2017		
6/6/2017		<0.02
6/7/2017		
1/22/2018		<0.02
1/23/2018		
1/24/2018		
5/1/2018		<0.02
5/2/2018		
11/27/2018		0.0169 (J)
11/28/2018		
1/8/2019		
5/29/2019		0.0254
5/30/2019		
9/30/2019		
10/1/2019		0.0248
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		0.0174 (J)
9/1/2020		
9/2/2020	<0.02	<0.02
5/11/2021		0.00788 (J)
5/18/2021		
5/19/2021		
5/25/2021	<0.02	
10/26/2021	<0.02	0.0117 (J)
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.02	
5/25/2022		0.0118 (J)
11/1/2022	<0.02	<0.02
11/2/2022		

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.02							<0.02
4/19/2016		<0.02							<0.02
6/8/2016		<0.02							<0.02
8/31/2016		<0.02							<0.02
10/19/2016		<0.02							<0.02
1/31/2017		<0.02							<0.02
5/2/2017		<0.02							<0.02
6/6/2017		<0.02							<0.02
1/23/2018		<0.02							<0.02
1/24/2018									<0.02
5/1/2018		<0.02							<0.02
11/27/2018		<0.02							<0.02
1/8/2019								0.0219	
3/20/2019						<0.02			
5/29/2019		<0.02							<0.02
7/31/2019	<0.02			<0.02			<0.02		
10/1/2019	<0.02	<0.02				<0.02	<0.02		<0.02
10/2/2019				<0.02				<0.02	
3/30/2020								<0.02	
3/31/2020		<0.02							<0.02
4/1/2020				<0.02		<0.02			
8/31/2020									<0.02
9/1/2020	<0.02			<0.02	<0.02	<0.02	<0.02	<0.02	
9/2/2020		<0.02	<0.02						
5/17/2021				<0.02					
5/18/2021					<0.02			<0.02	<0.02
5/19/2021		<0.02	<0.02			<0.02			
5/25/2021	<0.02						<0.02		
10/25/2021				<0.02	<0.02	<0.02	<0.02		
10/26/2021	<0.02		<0.02						
11/1/2021		<0.02						<0.02	<0.02
5/23/2022						<0.02			
5/24/2022	<0.02						<0.02	<0.02	<0.02
5/25/2022		<0.02	<0.02	<0.02	<0.02				
10/31/2022				<0.02	<0.02	<0.02	<0.02		
11/1/2022		<0.02	<0.02					<0.02	
11/2/2022	<0.02								<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.02	
10/1/2019	<0.02	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.02	
8/31/2020		
9/1/2020	<0.02	<0.02
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.02	<0.02
5/25/2021		
10/25/2021		
10/26/2021	<0.02	
11/1/2021		<0.02
5/23/2022	<0.02	
5/24/2022		<0.02
5/25/2022		
10/31/2022	<0.02	
11/1/2022		<0.02
11/2/2022		

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.02	<0.02	
3/2/2016						<0.02			
4/19/2016						<0.02	<0.02		
4/20/2016								<0.02	
6/7/2016						<0.02	<0.02	<0.02	
8/30/2016							<0.02	<0.02	
8/31/2016						<0.02			
10/18/2016								<0.02	
10/19/2016						<0.02	<0.02		
1/31/2017						<0.02	<0.02	<0.02	
5/2/2017						<0.02	<0.02		
5/3/2017								<0.02	
6/6/2017						<0.02	<0.02		
6/7/2017								<0.02	
1/24/2018						<0.02	<0.02	<0.02	
5/1/2018						<0.02	<0.02		
5/2/2018								<0.02	
11/27/2018						<0.02	<0.02	<0.02	
11/28/2018									
1/8/2019				0.0183 (J)					<0.02
5/29/2019						<0.02	<0.02	<0.02	
7/31/2019	<0.02	<0.02							
9/30/2019									
10/1/2019	<0.02	<0.02				<0.02	<0.02	<0.02	
10/2/2019				<0.02					<0.02
3/30/2020									
3/31/2020				<0.02		<0.02	<0.02	<0.02	<0.02
4/1/2020		<0.02							
9/1/2020	<0.02	<0.02	<0.02			<0.02	<0.02	<0.02	<0.02
9/2/2020				<0.02	<0.02				
5/17/2021			<0.02						
5/18/2021						<0.02	<0.02		
5/24/2021		<0.02			<0.02				
5/25/2021	<0.02			<0.02					
10/26/2021	<0.02	<0.02	<0.02	<0.02					
10/27/2021									
11/1/2021						<0.02	<0.02		
11/2/2021					<0.02			<0.02	<0.02
5/24/2022	<0.02			<0.02					
5/25/2022		<0.02	<0.02		<0.02	<0.02	<0.02	<0.02	<0.02
10/31/2022	<0.02				<0.02		<0.02	<0.02	<0.02
11/1/2022		<0.02	<0.02			<0.02			
11/2/2022				<0.02					

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.02	<0.02
3/2/2016		
4/19/2016	<0.02	
4/20/2016		<0.02
6/7/2016	<0.02	<0.02
8/30/2016	<0.02	
8/31/2016		<0.02
10/18/2016		
10/19/2016	<0.02	<0.02
1/31/2017	<0.02	<0.02
5/2/2017		
5/3/2017	<0.02	<0.02
6/6/2017		
6/7/2017	<0.02	<0.02
1/24/2018	<0.02	<0.02
5/1/2018		
5/2/2018	<0.02	0.0108 (J)
11/27/2018		
11/28/2018	<0.02	<0.02
1/8/2019		
5/29/2019	<0.02	<0.02
7/31/2019		
9/30/2019		<0.02
10/1/2019	<0.02	
10/2/2019		
3/30/2020		0.0102 (J)
3/31/2020	<0.02	
4/1/2020		
9/1/2020		
9/2/2020	<0.02	<0.02
5/17/2021	<0.02	
5/18/2021		0.0882
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		<0.02
11/1/2021		
11/2/2021	<0.02	
5/24/2022		<0.02
5/25/2022	<0.02	
10/31/2022	<0.02	<0.02
11/1/2022		
11/2/2022		

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.02	<0.02	<0.02	<0.02	
3/1/2016		<0.02		<0.02					
4/19/2016					<0.02	<0.02	<0.02	<0.02	
4/20/2016		<0.02		<0.02					
6/6/2016					<0.02				<0.02
6/7/2016		<0.02				<0.02	<0.02		
6/8/2016				<0.02					
8/30/2016		<0.02			<0.02	<0.02	<0.02	<0.02	
8/31/2016				<0.02					
10/18/2016		<0.02			<0.02	<0.02	<0.02	<0.02	
10/19/2016				<0.02					
1/31/2017		<0.02			<0.02	<0.02	<0.02	<0.02	
2/1/2017				<0.02					
5/2/2017					<0.02	<0.02	<0.02	<0.02	
5/3/2017		<0.02		<0.02					
6/6/2017					<0.02	<0.02	<0.02	<0.02	
6/7/2017		<0.02		<0.02					
1/23/2018				<0.02	<0.02	<0.02	<0.02	<0.02	
1/24/2018		<0.02							
5/1/2018						<0.02	<0.02	<0.02	
5/2/2018		<0.02		<0.02	<0.02				
11/26/2018									<0.02
11/27/2018		<0.02			<0.02	<0.02	<0.02		
11/28/2018				<0.02					
1/9/2019	0.0662		0.0217						
5/28/2019									<0.02
5/29/2019		<0.02			<0.02	<0.02	<0.02		
5/30/2019				<0.02					
9/30/2019		<0.02		<0.02					
10/1/2019	<0.02		<0.02						
10/2/2019					<0.02	<0.02	<0.02	<0.02	
12/2/2019	<0.02								
3/30/2020	<0.02	<0.02	<0.02						
3/31/2020				<0.02	<0.02	<0.02	<0.02	<0.02	
9/2/2020	<0.02	<0.02	<0.02	<0.02					<0.02
9/8/2020								<0.02	
9/9/2020					<0.02	<0.02	<0.02	<0.02	
5/11/2021		<0.02				<0.02	<0.02	<0.02	
5/12/2021					<0.02				
5/18/2021	<0.02		<0.02	<0.02					
5/24/2021									<0.02
10/18/2021							<0.02	<0.02	
10/19/2021					<0.02	<0.02			
10/26/2021		<0.02	<0.02						
10/27/2021	0.00746 (J)			<0.02					
11/2/2021									<0.02
5/23/2022			<0.02						
5/24/2022	<0.02	<0.02		<0.02					
5/25/2022									<0.02
5/31/2022					<0.02	<0.02	<0.02	<0.02	
10/31/2022	<0.02		<0.02	<0.02					
11/1/2022					<0.02	<0.02	<0.02	<0.02	<0.02

Time Series

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
11/2/2022		<0.02							

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.0005		<0.0005					
3/2/2016	<0.0005				<0.0005		<0.0005		<0.0005
4/19/2016	<0.0005								
4/20/2016		<0.0005		<0.0005	<0.0005		<0.0005		<0.0005
6/8/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		<0.0005
8/30/2016									<0.0005
8/31/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		
10/18/2016									<0.0005
10/19/2016	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		
1/31/2017	<0.0005						<0.0005		<0.0005
2/1/2017		<0.0005		<0.0005	<0.0005				
5/2/2017	<0.0005								<0.0005
5/3/2017		<0.0005		<0.0005	<0.0005		<0.0005		
6/6/2017	<0.0005								<0.0005
6/7/2017		<0.0005		<0.0005	<0.0005		<0.0005		
1/22/2018							<0.0005		
1/23/2018		<0.0005		<0.0005	<0.0005				<0.0005
1/24/2018	<0.0005								
5/1/2018	<0.0005								
5/2/2018		<0.0005		<0.0005	<0.0005		<0.0005		<0.0005
11/27/2018									<0.0005
11/28/2018	<0.0005	<0.0005		<0.0005	<0.0005		<0.0005		
1/8/2019			<0.0005			<0.0005			
5/29/2019	<0.0005			<0.0005	<0.0005		<0.0005		<0.0005
5/30/2019		<0.0005							
7/31/2019		<0.0005							
9/30/2019		<0.0005		<0.0005					
10/1/2019	<0.0005		<0.0005		<0.0005		<0.0005		<0.0005
10/2/2019						<0.0005			
3/30/2020	<0.0005								
3/31/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
4/1/2020									
9/1/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
9/2/2020								<0.0005	<0.0005
5/11/2021		<0.0005							
5/18/2021	<0.0005		<0.0005		<0.0005	<0.0005			
5/19/2021				<0.0005			<0.0005	<0.0005	
5/25/2021									<0.0005
10/26/2021							<0.0005	<0.0005	
10/27/2021		<0.0005	<0.0005						<0.0005
11/1/2021	<0.0005				<0.0005	<0.0005			
11/2/2021				<0.0005					
5/23/2022				<0.0005	<0.0005	<0.0005			
5/24/2022	<0.0005	<0.0005	<0.0005				<0.0005		
5/25/2022								<0.0005	<0.0005
11/1/2022			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/2/2022	<0.0005	<0.0005							

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.0005
4/19/2016		<0.0005
4/20/2016		
6/8/2016		<0.0005
8/30/2016		
8/31/2016		<0.0005
10/18/2016		
10/19/2016		<0.0005
1/31/2017		<0.0005
2/1/2017		
5/2/2017		<0.0005
5/3/2017		
6/6/2017		<0.0005
6/7/2017		
1/22/2018		<0.0005
1/23/2018		
1/24/2018		
5/1/2018		<0.0005
5/2/2018		
11/27/2018		<0.0005
11/28/2018		
1/8/2019		
5/29/2019		<0.0005
5/30/2019		
7/31/2019		
9/30/2019		
10/1/2019		<0.0005
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.0005
9/1/2020		
9/2/2020	<0.0005	<0.0005
5/11/2021		<0.0005
5/18/2021		
5/19/2021		
5/25/2021	<0.0005	
10/26/2021	<0.0005	<0.0005
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.0005	
5/25/2022		<0.0005
11/1/2022	<0.0005	<0.0005
11/2/2022		

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.0005							<0.0005
4/19/2016		<0.0005							<0.0005
6/8/2016		<0.0005							<0.0005
8/31/2016		<0.0005							<0.0005
10/19/2016		<0.0005							<0.0005
1/31/2017		<0.0005							<0.0005
5/2/2017		<0.0005							<0.0005
6/6/2017		<0.0005							<0.0005
1/23/2018		<0.0005							<0.0005
1/24/2018									<0.0005
5/1/2018		<0.0005							<0.0005
11/27/2018		<0.0005							<0.0005
1/8/2019								<0.0005	
3/20/2019						<0.0005			
5/29/2019		<0.0005							<0.0005
7/31/2019	<0.0005			<0.0005			<0.0005		
10/1/2019	<0.0005	<0.0005				<0.0005	<0.0005		<0.0005
10/2/2019				<0.0005				<0.0005	
3/30/2020								<0.0005	
3/31/2020		<0.0005							<0.0005
4/1/2020				<0.0005		<0.0005			
8/31/2020									<0.0005
9/1/2020	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/2/2020		<0.0005	<0.0005						
5/17/2021				<0.0005					
5/18/2021					<0.0005			<0.0005	<0.0005
5/19/2021		<0.0005	<0.0005			<0.0005			
5/25/2021	<0.0005						<0.0005		
10/25/2021				<0.0005	<0.0005	<0.0005	<0.0005		
10/26/2021	<0.0005		<0.0005						
11/1/2021		<0.0005						<0.0005	<0.0005
5/23/2022						<0.0005			
5/24/2022	<0.0005						<0.0005	<0.0005	<0.0005
5/25/2022		<0.0005	<0.0005	<0.0005	<0.0005				
10/31/2022				<0.0005	<0.0005	<0.0005	<0.0005		
11/1/2022		<0.0005	<0.0005					<0.0005	
11/2/2022	<0.0005								<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.0005	
10/1/2019	<0.0005	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.0005	
8/31/2020		
9/1/2020	<0.0005	<0.0005
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.0005	<0.0005
5/25/2021		
10/25/2021		
10/26/2021	<0.0005	
11/1/2021		<0.0005
5/23/2022	<0.0005	
5/24/2022		<0.0005
5/25/2022		
10/31/2022	<0.0005	
11/1/2022		<0.0005
11/2/2022		

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.0005	<0.0005	
3/2/2016						<0.0005			
4/19/2016						<0.0005	<0.0005		
4/20/2016								<0.0005	
6/7/2016						<0.0005	<0.0005	<0.0005	
8/30/2016							<0.0005	<0.0005	
8/31/2016						<0.0005			
10/18/2016								<0.0005	
10/19/2016						<0.0005	<0.0005		
1/31/2017						<0.0005	<0.0005	<0.0005	
5/2/2017						<0.0005	<0.0005		
5/3/2017								<0.0005	
6/6/2017						<0.0005	<0.0005		
6/7/2017								<0.0005	
1/24/2018						<0.0005	<0.0005	<0.0005	
5/1/2018						<0.0005	<0.0005		
5/2/2018								<0.0005	
11/27/2018						<0.0005	<0.0005	<0.0005	
11/28/2018									
1/8/2019				<0.0005					<0.0005
5/29/2019						<0.0005	<0.0005	<0.0005	
7/31/2019	<0.0005	<0.0005							
9/30/2019									
10/1/2019	<0.0005	<0.0005				<0.0005	<0.0005	<0.0005	
10/2/2019				<0.0005					<0.0005
3/30/2020									
3/31/2020				<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
4/1/2020		<0.0005							
9/1/2020	<0.0005	<0.0005	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005
9/2/2020				<0.0005	<0.0005				
5/17/2021			<0.0005						
5/18/2021						<0.0005	<0.0005		
5/24/2021		<0.0005			<0.0005				
5/25/2021	<0.0005			<0.0005					
10/26/2021	<0.0005	<0.0005	<0.0005	<0.0005					
10/27/2021									
11/1/2021						<0.0005	<0.0005		
11/2/2021					<0.0005			<0.0005	<0.0005
5/24/2022	<0.0005			<0.0005					
5/25/2022		<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/31/2022	<0.0005				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/1/2022		<0.0005	<0.0005			<0.0005			
11/2/2022				<0.0005					

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.0005	<0.0005
3/2/2016		
4/19/2016	<0.0005	
4/20/2016		<0.0005
6/7/2016	<0.0005	<0.0005
8/30/2016	<0.0005	
8/31/2016		<0.0005
10/18/2016		
10/19/2016	<0.0005	<0.0005
1/31/2017	<0.0005	<0.0005
5/2/2017		
5/3/2017	<0.0005	<0.0005
6/6/2017		
6/7/2017	<0.0005	<0.0005
1/24/2018	<0.0005	<0.0005
5/1/2018		
5/2/2018	<0.0005	<0.0005
11/27/2018		
11/28/2018	<0.0005	<0.0005
1/8/2019		
5/29/2019	<0.0005	<0.0005
7/31/2019		
9/30/2019		<0.0005
10/1/2019	<0.0005	
10/2/2019		
3/30/2020		<0.0005
3/31/2020	<0.0005	
4/1/2020		
9/1/2020		
9/2/2020	<0.0005	<0.0005
5/17/2021	<0.0005	
5/18/2021		<0.0005
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		<0.0005
11/1/2021		
11/2/2021	<0.0005	
5/24/2022		<0.0005
5/25/2022	<0.0005	
10/31/2022	<0.0005	<0.0005
11/1/2022		
11/2/2022		

Time Series

Constituent: Mercury (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.0005	<0.0005	<0.0005	<0.0005	
3/1/2016		<0.0005		<0.0005					
4/19/2016					<0.0005	<0.0005	<0.0005	<0.0005	
4/20/2016		<0.0005		<0.0005					
6/6/2016					<0.0005				<0.0005
6/7/2016		<0.0005				<0.0005	<0.0005		
6/8/2016				<0.0005					
8/30/2016		<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	
8/31/2016				<0.0005					
10/18/2016		<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	
10/19/2016				<0.0005					
1/31/2017		<0.0005			<0.0005	<0.0005	<0.0005	<0.0005	
2/1/2017				<0.0005					
5/2/2017					<0.0005	<0.0005	<0.0005	<0.0005	
5/3/2017		<0.0005		<0.0005					
6/6/2017					<0.0005	<0.0005	<0.0005	<0.0005	
6/7/2017		<0.0005		<0.0005					
1/23/2018				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1/24/2018		<0.0005							
5/1/2018						<0.0005	<0.0005	<0.0005	
5/2/2018		<0.0005		<0.0005	<0.0005				
11/26/2018									<0.0005
11/27/2018		<0.0005			<0.0005	<0.0005	<0.0005		
11/28/2018				<0.0005					
1/9/2019	<0.0005		<0.0005						
5/28/2019									<0.0005
5/29/2019		<0.0005			<0.0005	<0.0005	<0.0005		
5/30/2019				<0.0005					
9/30/2019		<0.0005		<0.0005					
10/1/2019	<0.0005		<0.0005						
10/2/2019					<0.0005	<0.0005	<0.0005	<0.0005	
3/30/2020	<0.0005	<0.0005	<0.0005						
3/31/2020				<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/2/2020	<0.0005	<0.0005	<0.0005	<0.0005					<0.0005
9/8/2020									<0.0005
9/9/2020					<0.0005	<0.0005	<0.0005		
5/11/2021		<0.0005				<0.0005	<0.0005	<0.0005	
5/12/2021					<0.0005				
5/18/2021	<0.0005		<0.0005	<0.0005					
5/24/2021									<0.0005
10/18/2021							<0.0005	<0.0005	
10/19/2021					<0.0005	<0.0005			
10/26/2021		<0.0005	<0.0005						
10/27/2021	<0.0005			<0.0005					
11/2/2021									<0.0005
5/23/2022			<0.0005						
5/24/2022	<0.0005	<0.0005		<0.0005					
5/25/2022									<0.0005
5/31/2022					<0.0005	<0.0005	<0.0005	<0.0005	
10/31/2022	<0.0005		<0.0005	<0.0005					
11/1/2022					<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
11/2/2022		<0.0005							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.000203		<0.01					
3/2/2016	<0.000203				<0.01		<0.01		<0.01
4/19/2016	<0.000203								
4/20/2016		<0.000203		<0.01	<0.01		<0.01		<0.01
6/8/2016	<0.000203	<0.000203		<0.01	<0.01		<0.01		<0.01
8/30/2016									<0.01
8/31/2016	<0.000203	<0.000203		<0.01	<0.01		<0.01		
10/18/2016									<0.01
10/19/2016	<0.000203	<0.000203		<0.01	<0.01		<0.01		
1/31/2017	<0.000203						<0.01		<0.01
2/1/2017		<0.000203		<0.01	<0.01				
5/2/2017	<0.000203								<0.01
5/3/2017		<0.000203		<0.01	<0.01		<0.01		
6/6/2017	<0.000203								<0.01
6/7/2017		<0.000203		<0.01	<0.01		<0.01		
1/22/2018							<0.01		
1/23/2018		<0.000203		<0.01	<0.01				<0.01
1/24/2018	<0.000203								
5/1/2018	<0.000203								
5/2/2018		<0.000203		<0.01	<0.01		<0.01		<0.01
11/27/2018									<0.01
11/28/2018	<0.000203	<0.000203		<0.01	<0.01		<0.01		
1/8/2019			0.00335 (J)			0.00303 (J)			
5/29/2019	<0.000203			<0.01	<0.01		<0.01		<0.01
5/30/2019		<0.000203							
9/30/2019		<0.000203		<0.01					
10/1/2019	<0.000203		<0.01		<0.01		<0.01		<0.01
10/2/2019						<0.01			
3/30/2020	<0.000203								
3/31/2020		<0.000203	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01
4/1/2020									
9/1/2020	<0.000203	<0.000203	<0.01	<0.01	<0.01	<0.01	<0.01		
9/2/2020								<0.01	<0.01
5/11/2021		<0.000203							
5/18/2021	0.000106 (J)		0.000148 (J)		0.000947	0.00106			
5/19/2021				0.00652			0.000437	0.000642	
5/25/2021									0.000701
10/26/2021							0.00043	0.00135	
10/27/2021		<0.000203	0.00014 (J)						0.00053
11/1/2021	8E-05 (J)				0.00099	0.00118			
11/2/2021				0.00161					
5/23/2022				0.00141	0.00109	0.00123			
5/24/2022	<0.000203	<0.000203	0.00011 (J)				0.00356		
5/25/2022								0.0008	0.00052
11/1/2022			0.000103 (J)	0.000972	0.000942	0.00112	0.00585	0.000573	0.000643
11/2/2022	<0.000203	<0.000203							

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		0.00238 (J)
4/19/2016		0.00203 (J)
4/20/2016		
6/8/2016		<0.01
8/30/2016		
8/31/2016		<0.01
10/18/2016		
10/19/2016		<0.01
1/31/2017		<0.01
2/1/2017		
5/2/2017		0.00201 (J)
5/3/2017		
6/6/2017		<0.01
6/7/2017		
1/22/2018		0.00211 (J)
1/23/2018		
1/24/2018		
5/1/2018		<0.01
5/2/2018		
11/27/2018		<0.01
11/28/2018		
1/8/2019		
5/29/2019		<0.01
5/30/2019		
9/30/2019		
10/1/2019		<0.01
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.01
9/1/2020		
9/2/2020	0.00229 (J)	0.00209 (J)
5/11/2021		0.00171
5/18/2021		
5/19/2021		
5/25/2021	0.00135	
10/26/2021	0.0012	0.00206
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	0.0031	
5/25/2022		0.0018
11/1/2022	0.00119	0.00173
11/2/2022		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.000203							<0.000203
4/19/2016		<0.000203							<0.000203
6/8/2016		<0.000203							<0.000203
8/31/2016		<0.000203							<0.000203
10/19/2016		<0.000203							<0.000203
1/31/2017		<0.000203							<0.000203
5/2/2017		<0.000203							<0.000203
6/6/2017		<0.000203							<0.000203
1/23/2018		<0.000203							<0.000203
1/24/2018									<0.000203
5/1/2018		<0.000203							<0.000203
11/27/2018		<0.000203							<0.000203
1/8/2019								<0.000203	
3/20/2019						<0.01			
5/29/2019		<0.000203							<0.000203
7/31/2019	<0.000203			<0.01			<0.0002		
10/1/2019	<0.000203	<0.000203				<0.01	<0.0002		<0.000203
10/2/2019				<0.01				<0.000203	
3/30/2020								<0.000203	
3/31/2020		<0.000203							<0.000203
4/1/2020				<0.01		<0.01			
8/31/2020									<0.000203
9/1/2020	<0.000203			<0.01	<0.01	<0.01	<0.0002	<0.000203	
9/2/2020		<0.000203	<0.000203						
5/17/2021				0.000469					
5/18/2021					0.000571			0.00018 (J)	<0.000203
5/19/2021		0.000136 (J)	<0.000203			0.00025			
5/25/2021	0.000106 (J)						0.000124 (J)		
10/25/2021				0.00078	0.00088	0.00025	8E-05 (J)		
10/26/2021	0.00011 (J)		<0.000203						
11/1/2021		<0.000203						0.00013 (J)	<0.000203
5/23/2022						0.00036			
5/24/2022	<0.000203						<0.0002	0.00011 (J)	<0.000203
5/25/2022		<0.000203	<0.000203	0.00045	0.00043				
10/31/2022				0.000432	0.000535	0.000165 (J)	0.000139 (J)		
11/1/2022		<0.000203	<0.000203					<0.000203	
11/2/2022	<0.000203								<0.000203

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.01	
10/1/2019	<0.01	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.01	
8/31/2020		
9/1/2020	<0.01	<0.01
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	0.000503	0.00155
5/25/2021		
10/25/2021		
10/26/2021	0.00048	
11/1/2021		0.00181
5/23/2022	0.00054	
5/24/2022		0.00164
5/25/2022		
10/31/2022	0.000556	
11/1/2022		0.00138
11/2/2022		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.000203	<0.01	
3/2/2016						<0.000203			
4/19/2016						<0.000203	<0.000203		
4/20/2016								<0.01	
6/7/2016						<0.000203	<0.000203	<0.01	
8/30/2016							<0.000203	<0.01	
8/31/2016						<0.000203			
10/18/2016								<0.01	
10/19/2016						<0.000203	<0.000203		
1/31/2017						<0.000203	<0.000203	<0.01	
5/2/2017						<0.000203	<0.000203		
5/3/2017								<0.01	
6/6/2017						<0.000203	<0.000203		
6/7/2017								<0.01	
1/24/2018						<0.000203	<0.000203	<0.01	
5/1/2018						<0.000203	<0.000203		
5/2/2018								<0.01	
11/27/2018						<0.000203	<0.000203	<0.01	
11/28/2018									
1/8/2019				0.00399 (J)					<0.000203
5/29/2019						<0.000203	<0.000203	<0.01	
7/31/2019	0.00426 (J)	<0.000203							
9/30/2019									
10/1/2019	<0.01	<0.000203				<0.000203	<0.000203	<0.01	
10/2/2019				<0.01					<0.000203
3/30/2020									
3/31/2020				<0.01		<0.000203	<0.000203	<0.01	<0.000203
4/1/2020		<0.000203							
9/1/2020	<0.01	<0.000203	<0.01			<0.000203	<0.000203	<0.01	<0.000203
9/2/2020				<0.01	<0.01				
5/17/2021			0.00147						
5/18/2021						<0.000203	<0.000203		
5/24/2021		0.00069			0.000102 (J)				
5/25/2021	0.00137			0.000869					
10/26/2021	0.00136	0.00035	0.00124	0.00096					
10/27/2021									
11/1/2021						<0.000203	<0.000203		
11/2/2021					0.00014 (J)			0.00012 (J)	8E-05 (J)
5/24/2022	0.00145			0.00092					
5/25/2022		0.00013 (J)	0.00142		0.0001 (J)	<0.000203	<0.000203	0.00011 (J)	<0.000203
10/31/2022	0.00132				0.000107 (J)		<0.000203	0.000344	<0.000203
11/1/2022		<0.000203	0.000634			<0.000203			
11/2/2022				0.00104					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.01	<0.01
3/2/2016		
4/19/2016	<0.01	
4/20/2016		<0.01
6/7/2016	<0.01	<0.01
8/30/2016	<0.01	
8/31/2016		<0.01
10/18/2016		
10/19/2016	<0.01	<0.01
1/31/2017	<0.01	<0.01
5/2/2017		
5/3/2017	<0.01	<0.01
6/6/2017		
6/7/2017	<0.01	<0.01
1/24/2018	<0.01	<0.01
5/1/2018		
5/2/2018	<0.01	<0.01
11/27/2018		
11/28/2018	<0.01	<0.01
1/8/2019		
5/29/2019	<0.01	<0.01
7/31/2019		
9/30/2019		<0.01
10/1/2019	<0.01	
10/2/2019		
3/30/2020		<0.01
3/31/2020	<0.01	
4/1/2020		
9/1/2020		
9/2/2020	<0.01	<0.01
5/17/2021	0.000117 (J)	
5/18/2021		0.000214
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		0.00018 (J)
11/1/2021		
11/2/2021	0.00011 (J)	
5/24/2022		0.00018 (J)
5/25/2022	0.00033	
10/31/2022	0.000122 (J)	0.00289
11/1/2022		
11/2/2022		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.000203	<0.000203	<0.000203	<0.000203	
3/1/2016		<0.01		<0.01					
4/19/2016					<0.000203	<0.000203	<0.000203	<0.000203	
4/20/2016		<0.01		<0.01					
6/6/2016					<0.000203			<0.000203	
6/7/2016		<0.01				<0.000203	<0.000203		
6/8/2016				<0.01					
8/30/2016		<0.01			<0.000203	<0.000203	<0.000203	<0.000203	
8/31/2016				<0.01					
10/18/2016		<0.01			<0.000203	<0.000203	<0.000203	<0.000203	
10/19/2016				<0.01					
1/31/2017		<0.01			<0.000203	<0.000203	<0.000203	<0.000203	
2/1/2017				<0.01					
5/2/2017					<0.000203	<0.000203	<0.000203	<0.000203	
5/3/2017		<0.01		<0.01					
6/6/2017					<0.000203	<0.000203	<0.000203	<0.000203	
6/7/2017		<0.01		<0.01					
1/23/2018				<0.01	<0.000203	<0.000203	<0.000203	<0.000203	
1/24/2018		<0.01							
5/1/2018						<0.000203	<0.000203	<0.000203	
5/2/2018		<0.01		<0.01	<0.000203				
11/26/2018								<0.000203	
11/27/2018		<0.01			<0.000203	<0.000203	<0.000203		
11/28/2018				<0.01					
1/9/2019	0.00511 (J)		0.00243 (J)						
5/28/2019								<0.000203	
5/29/2019		<0.01			<0.000203	<0.000203	<0.000203		
5/30/2019				<0.01					
9/30/2019		<0.01		<0.01					
10/1/2019	<0.01		<0.01						
10/2/2019					<0.000203	<0.000203	<0.000203	<0.000203	
3/30/2020	<0.01	<0.01	<0.01						
3/31/2020				<0.01	<0.000203	<0.000203	<0.000203	<0.000203	
9/2/2020	<0.01	<0.01	<0.01	<0.01					<0.000203
9/8/2020								<0.000203	
9/9/2020					<0.000203	<0.000203	<0.000203		
5/11/2021		0.000321				<0.000203	<0.000203	<0.000203	
5/12/2021					<0.000203				
5/18/2021	0.00021		0.000363	0.00022					
5/24/2021									9.23E-05 (J)
10/18/2021							<0.000203	<0.000203	
10/19/2021					<0.000203	<0.000203			
10/26/2021		0.00019 (J)	0.00028						
10/27/2021	0.00046			0.00021					
11/2/2021									<0.000203
5/23/2022			0.00029						
5/24/2022	0.00074	0.00023		0.00024					
5/25/2022									<0.000203
5/31/2022					<0.000203	<0.000203	<0.000203	<0.000203	
10/31/2022	0.00124		0.000222	0.000157 (J)					
11/1/2022					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/2/2022		0.000232							

Time Series

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		6.33		6.34					
3/2/2016	5.78				6.16		6.1		6.08
4/19/2016	5.8								
4/20/2016		6.31		6.31	6.17		6.14		6.04
6/8/2016	5.83	6.34		6.33	6.25		6.11		6.13
8/30/2016									6.08
8/31/2016	5.85	6.35		6.29	6.23		6.1		
10/18/2016									6.13
10/19/2016	5.87	6.35		6.26	6.2		6.1		
1/31/2017	5.83						6.07		6.06
2/1/2017		6.27		6.22	6.08				
3/21/2017	5.83								
3/22/2017		6.29		6.22	6.12		6.07		6.09
5/2/2017	5.73								5.94
5/3/2017		6.23		6.15	6.12		6.1		
6/6/2017	5.83								6.1
6/7/2017		6.27		6.21	6.13		6.07		
9/13/2017	5.91			6.26	6.19		6.12		6.11
9/14/2017		6.27							
1/22/2018							6.12		
1/23/2018		6.32		6.28	6.17				6.12
1/24/2018	5.9								
5/1/2018	5.83								
5/2/2018		6.36		6.33	6.15		6.13		6.13
8/28/2018	5.78	6.31							
8/29/2018				6.3	6.19		6.1		6.14
11/27/2018									6.07
11/28/2018	5.82	6.32		6.28	6.11		6.04		
1/8/2019			6.5			6.48			
5/29/2019	5.82			6.24	6.13		6.01		6.07
5/30/2019		6.23							
9/30/2019		6.11		5.85					
10/1/2019	5.47		6.05		6		6.02		6.01
10/2/2019						5.9			
3/30/2020	5.79								
3/31/2020		6.37	6.38	6.26	6.21	6.33	5.98		5.76
4/1/2020									
9/1/2020	5.89	6.33	6.34	5.87	6.19	6.2	5.82		
9/2/2020								6.23	5.8
5/11/2021		6.4							
5/18/2021	5.86		6.34		5.58	5.92			
5/19/2021				6.33			5.79	6.2	
5/25/2021									5.82
10/26/2021							5.69	6.81	
10/27/2021		5.91	6.1						6.41
11/1/2021	6.01				5.75	6.09			
11/2/2021				5.84					
5/23/2022				6.32	6.12	6.22			
5/24/2022	5.44	5.81	5.77				5.5		
5/25/2022								6.3	6.14
11/1/2022			6.41	6.28	6.21	6.32	6.09	6.29	5.93
11/2/2022	5.56	6.39							

Time Series

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		6.61
4/19/2016		6.75
4/20/2016		
6/8/2016		6.63
8/30/2016		
8/31/2016		6.71
10/18/2016		
10/19/2016		6.66
1/31/2017		6.73
2/1/2017		
3/21/2017		6.62
3/22/2017		
5/2/2017		6.49
5/3/2017		
6/6/2017		6.7
6/7/2017		
9/13/2017		6.66
9/14/2017		
1/22/2018		6.73
1/23/2018		
1/24/2018		
5/1/2018		6.62
5/2/2018		
8/28/2018		
8/29/2018		6.68
11/27/2018		6.58
11/28/2018		
1/8/2019		
5/29/2019		6.63
5/30/2019		
9/30/2019		
10/1/2019		6.2
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		6.72
9/1/2020		
9/2/2020	7.02	6.57
5/11/2021		6.76
5/18/2021		
5/19/2021		
5/25/2021	7.2	
10/26/2021	6.91	6.7
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	6.71	
5/25/2022		6.68
11/1/2022	6.9	6.64
11/2/2022		

Time Series

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
3/21/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
1/23/2018		
1/24/2018		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	6.22	
10/1/2019	6.24	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	6.45	
8/31/2020		
9/1/2020	6.15	6.03
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	6.17	6.44
5/25/2021		
10/25/2021		
10/26/2021	6.49	
11/1/2021		6
5/23/2022	6.15	
5/24/2022		6.28
5/25/2022		
10/31/2022	6.12	
11/1/2022		6.3
11/2/2022		

Time Series

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							5.19	5.99	
3/2/2016						5.14			
4/19/2016						5.06	5.06		
4/20/2016								5.96	
6/7/2016						5.13	4.7	6.03	
8/30/2016							4.77	6	
8/31/2016						5.11			
10/18/2016								5.99	
10/19/2016						5.05	4.67		
1/31/2017						5.14	4.42	5.96	
3/21/2017						5.13	4.45		
3/22/2017								6.01	
5/2/2017						4.85	4.46		
5/3/2017								5.99	
6/6/2017						5.15	4.89		
6/7/2017								6.01	
9/12/2017						4.96	4.71		
9/14/2017								6	
1/24/2018						5.22	5.03	5.98	
5/1/2018						5.11	4.44		
5/2/2018								5.99	
8/28/2018						4.92	4.85		
8/29/2018								6.03	
11/27/2018						5.05	4.78	6.01	
11/28/2018									
1/8/2019				6.51					6.07
5/29/2019						5.05	4.65	5.93	
7/31/2019	6.54	6.08							
9/30/2019									
10/1/2019	6.6	6.03				4.37	4.28	5.47	
10/2/2019				6.21					5.9
3/30/2020									
3/31/2020				6.23		5.08	4.69	6.01	6.05
4/1/2020		6.44							
9/1/2020	6.48	6.14	7.98			4.24	4.23	5.93	5.7
9/2/2020				6.01	5.39				
5/17/2021			7.87						
5/18/2021						4.93	4.17		
5/24/2021		6.19			4.12				
5/25/2021	6.44			6.16					
10/26/2021	6.86	6.54	8.31	6.2					
10/27/2021									
11/1/2021						4.94	5.18		
11/2/2021					5.01			6.36	6.35
5/24/2022	6.57			6.22					
5/25/2022		5.92	7.44		5.23	4.64	4.6	5.99	5.88
10/31/2022	6.46				5.11		4.65	5.99	5.9
11/1/2022		6	7.36			5.01			
11/2/2022				6.05					

Time Series

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	5.59	6.36
3/2/2016		
4/19/2016	5.55	
4/20/2016		6.31
6/7/2016	5.43	6.3
8/30/2016	5.39	
8/31/2016		6.31
10/18/2016		
10/19/2016	5.31	6.23
1/31/2017	5.26	6.26
3/21/2017		
3/22/2017	5.32	6.32
5/2/2017		
5/3/2017	5.35	6.29
6/6/2017		
6/7/2017	5.32	6.27
9/12/2017		
9/14/2017	5.29	6.25
1/24/2018	5.32	6.35
5/1/2018		
5/2/2018	5.33	6.29
8/28/2018		
8/29/2018	5.41	
11/27/2018		
11/28/2018	5.46	6.33
1/8/2019		
5/29/2019	5.31	6.18
7/31/2019		
9/30/2019		6.36
10/1/2019	4.7	
10/2/2019		
3/30/2020		6.32
3/31/2020	5.22	
4/1/2020		
9/1/2020		
9/2/2020	5.16	6.25
5/17/2021	5.21	
5/18/2021		6.4
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		6.35
11/1/2021		
11/2/2021	5.59	
5/24/2022		6.32
5/25/2022	4.57	
10/31/2022	4.9	7.07
11/1/2022		
11/2/2022		

Time Series

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
5/23/2022			6.08						
5/24/2022	6.92	5.6		6.03					
5/25/2022									5.45
5/31/2022					3.89	3.31	3.54	3.97	
10/31/2022	7.9		6.23	6.26					
11/1/2022					4.6	4.42	4.12	4.74	4.22
11/2/2022		6.28							

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.001015		<0.001015					
3/2/2016	<0.001015				<0.001015		<0.00102		<0.001015
4/19/2016	<0.001015								
4/20/2016		<0.001015		<0.001015	<0.001015		<0.00102		<0.001015
6/8/2016	<0.001015	<0.001015		<0.001015	<0.001015		<0.00102		<0.001015
8/30/2016									<0.001015
8/31/2016	<0.001015	<0.001015		<0.001015	<0.001015		<0.00102		
10/18/2016									<0.001015
10/19/2016	<0.001015	<0.001015		<0.001015	<0.001015		<0.00102		
1/31/2017	<0.001015						<0.00102		<0.001015
2/1/2017		<0.001015		<0.001015	<0.001015				
5/2/2017	<0.001015								<0.001015
5/3/2017		<0.001015		<0.001015	<0.001015		<0.00102		
6/6/2017	<0.001015								<0.001015
6/7/2017		<0.001015		<0.001015	<0.001015		<0.00102		
1/22/2018							<0.00102		
1/23/2018		<0.001015		<0.001015	<0.001015				<0.001015
1/24/2018	<0.001015								
5/1/2018	<0.001015								
5/2/2018		<0.001015		<0.001015	<0.001015		<0.00102		<0.001015
11/27/2018									<0.001015
11/28/2018	<0.001015	<0.001015		<0.001015	<0.001015		<0.00102		
1/8/2019			<0.001015			<0.001015			
5/29/2019	<0.001015			<0.001015	<0.001015		<0.00102		<0.001015
5/30/2019		<0.001015							
9/30/2019		<0.001015		<0.001015					
10/1/2019	<0.001015		<0.001015		<0.001015		<0.00102		<0.001015
10/2/2019						<0.001015			
3/30/2020	<0.001015								
3/31/2020		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.00102		<0.001015
4/1/2020									
9/1/2020	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	<0.00102		
9/2/2020								<0.001015	<0.001015
5/11/2021		<0.001015							
5/18/2021	<0.001015		<0.001015		<0.001015	<0.001015			
5/19/2021				<0.001015			<0.00102	<0.001015	
5/25/2021									<0.001015
10/26/2021							<0.00102	<0.001015	
10/27/2021		<0.001015	<0.001015						<0.001015
11/1/2021	<0.001015				<0.001015	<0.001015			
11/2/2021				<0.001015					
5/23/2022				<0.001015	<0.001015	<0.001015			
5/24/2022	<0.001015	<0.001015	<0.001015				0.00056 (J)		
5/25/2022								<0.001015	<0.001015
11/1/2022			<0.001015	<0.001015	<0.001015	<0.001015	0.000611 (J)	<0.001015	<0.001015
11/2/2022	<0.001015	<0.001015							

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.001015
4/19/2016		<0.001015
4/20/2016		
6/8/2016		<0.001015
8/30/2016		
8/31/2016		<0.001015
10/18/2016		
10/19/2016		<0.001015
1/31/2017		<0.001015
2/1/2017		
5/2/2017		<0.001015
5/3/2017		
6/6/2017		<0.001015
6/7/2017		
1/22/2018		<0.001015
1/23/2018		
1/24/2018		
5/1/2018		<0.001015
5/2/2018		
11/27/2018		<0.001015
11/28/2018		
1/8/2019		
5/29/2019		<0.001015
5/30/2019		
9/30/2019		
10/1/2019		<0.001015
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.001015
9/1/2020		
9/2/2020	<0.001015	<0.001015
5/11/2021		<0.001015
5/18/2021		
5/19/2021		
5/25/2021	<0.001015	
10/26/2021	<0.001015	<0.001015
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.001015	
5/25/2022		<0.001015
11/1/2022	<0.001015	<0.001015
11/2/2022		

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.001015							<0.001015
4/19/2016		<0.001015							<0.001015
6/8/2016		<0.001015							<0.001015
8/31/2016		<0.001015							<0.001015
10/19/2016		<0.001015							<0.001015
1/31/2017		<0.001015							<0.001015
5/2/2017		<0.001015							<0.001015
6/6/2017		<0.001015							<0.001015
1/23/2018		<0.001015							<0.001015
1/24/2018									<0.001015
5/1/2018		<0.001015							<0.001015
11/27/2018		<0.001015							<0.001015
1/8/2019								<0.001015	
3/20/2019						<0.001015			
5/29/2019		<0.001015							<0.001015
7/31/2019	<0.001015			<0.001015			<0.001015		
10/1/2019	<0.001015	<0.001015				<0.001015	<0.001015		<0.001015
10/2/2019				<0.001015				<0.001015	
3/30/2020								<0.001015	
3/31/2020		<0.001015							<0.001015
4/1/2020				<0.001015		<0.001015			
8/31/2020									<0.001015
9/1/2020	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015	<0.001015	
9/2/2020		<0.001015	<0.001015						
5/17/2021				<0.001015					
5/18/2021					<0.001015			<0.001015	<0.001015
5/19/2021		<0.001015	<0.001015			<0.001015			
5/25/2021	<0.001015						<0.001015		
10/25/2021				<0.001015	<0.001015	<0.001015	<0.001015		
10/26/2021	<0.001015		<0.001015						
11/1/2021		<0.001015						<0.001015	<0.001015
5/23/2022						<0.001015			
5/24/2022	<0.001015						<0.001015	<0.001015	<0.001015
5/25/2022		<0.001015	<0.001015	<0.001015	<0.001015				
10/31/2022				<0.001015	<0.001015	<0.001015	<0.001015		
11/1/2022		<0.001015	<0.001015					<0.001015	
11/2/2022	<0.001015								<0.001015

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.001015	
10/1/2019	<0.001015	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.001015	
8/31/2020		
9/1/2020	<0.001015	<0.001015
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.001015	<0.001015
5/25/2021		
10/25/2021		
10/26/2021	<0.001015	
11/1/2021		<0.001015
5/23/2022	0.00054 (J)	
5/24/2022		<0.001015
5/25/2022		
10/31/2022	<0.001015	
11/1/2022		<0.001015
11/2/2022		

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.001015	<0.001015	
3/2/2016						<0.001015			
4/19/2016						<0.001015	<0.001015		
4/20/2016								<0.001015	
6/7/2016						<0.001015	<0.001015	<0.001015	
8/30/2016							<0.001015	<0.001015	
8/31/2016						<0.001015			
10/18/2016								<0.001015	
10/19/2016						<0.001015	<0.001015		
1/31/2017						<0.001015	<0.001015	<0.001015	
5/2/2017						<0.001015	<0.001015		
5/3/2017								<0.001015	
6/6/2017						<0.001015	<0.001015		
6/7/2017								<0.001015	
1/24/2018						<0.001015	<0.001015	<0.001015	
5/1/2018						<0.001015	<0.001015		
5/2/2018								<0.001015	
11/27/2018						<0.001015	<0.001015	<0.001015	
11/28/2018									
1/8/2019				<0.001015					<0.001015
5/29/2019						<0.001015	<0.001015	<0.001015	
7/31/2019	<0.001015	<0.001015							
9/30/2019									
10/1/2019	<0.001015	<0.001015				<0.001015	<0.001015	<0.001015	
10/2/2019				<0.001015					<0.001015
3/30/2020									
3/31/2020				<0.001015		<0.001015	<0.001015	<0.001015	<0.001015
4/1/2020		<0.001015							
9/1/2020	<0.001015	<0.001015	<0.001015			<0.001015	<0.001015	<0.001015	<0.001015
9/2/2020				<0.001015	<0.001015				
5/17/2021			<0.001015						
5/18/2021						<0.001015	<0.001015		
5/24/2021		<0.001015			<0.001015				
5/25/2021	<0.001015			<0.001015					
10/26/2021	<0.001015	<0.001015	<0.001015	<0.001015					
10/27/2021									
11/1/2021						<0.001015	<0.001015		
11/2/2021					<0.001015			<0.001015	<0.001015
5/24/2022	<0.001015			<0.001015					
5/25/2022		<0.001015	<0.001015		<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
10/31/2022	<0.001015				<0.001015	<0.001015	<0.001015	<0.001015	<0.001015
11/1/2022		<0.001015	<0.001015			<0.001015			
11/2/2022				<0.001015					

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.001015	<0.001015
3/2/2016		
4/19/2016	<0.001015	
4/20/2016		<0.001015
6/7/2016	<0.001015	<0.001015
8/30/2016	<0.001015	
8/31/2016		<0.001015
10/18/2016		
10/19/2016	<0.001015	<0.001015
1/31/2017	<0.001015	<0.001015
5/2/2017		
5/3/2017	<0.001015	<0.001015
6/6/2017		
6/7/2017	<0.001015	<0.001015
1/24/2018	<0.001015	<0.001015
5/1/2018		
5/2/2018	<0.001015	<0.001015
11/27/2018		
11/28/2018	<0.001015	<0.001015
1/8/2019		
5/29/2019	<0.001015	<0.001015
7/31/2019		
9/30/2019		<0.001015
10/1/2019	<0.001015	
10/2/2019		
3/30/2020		<0.001015
3/31/2020	<0.001015	
4/1/2020		
9/1/2020		
9/2/2020	<0.001015	<0.001015
5/17/2021	<0.001015	
5/18/2021		<0.001015
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		<0.001015
11/1/2021		
11/2/2021	<0.001015	
5/24/2022		<0.001015
5/25/2022	<0.001015	
10/31/2022	<0.001015	<0.001015
11/1/2022		
11/2/2022		

Time Series

Constituent: Selenium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.001015	<0.00102	<0.001015	<0.001015	
3/1/2016		<0.001015		<0.001015					
4/19/2016					<0.001015	<0.00102	<0.001015	<0.001015	
4/20/2016		<0.001015		<0.001015					
6/6/2016					<0.001015				<0.001015
6/7/2016		<0.001015				<0.00102	<0.001015		
6/8/2016				<0.001015					
8/30/2016		<0.001015			<0.001015	<0.00102	<0.001015	<0.001015	
8/31/2016				<0.001015					
10/18/2016		<0.001015			<0.001015	<0.00102	<0.001015	<0.001015	
10/19/2016				<0.001015					
1/31/2017		<0.001015			<0.001015	<0.00102	<0.001015	<0.001015	
2/1/2017				<0.001015					
5/2/2017					<0.001015	<0.00102	<0.001015	<0.001015	
5/3/2017		<0.001015		<0.001015					
6/6/2017					<0.001015	<0.00102	<0.001015	<0.001015	
6/7/2017		<0.001015		<0.001015					
1/23/2018				<0.001015	<0.001015	<0.00102	<0.001015	<0.001015	
1/24/2018		<0.001015							
5/1/2018						<0.00102	<0.001015	<0.001015	
5/2/2018		<0.001015		<0.001015	<0.001015				
11/26/2018									<0.001015
11/27/2018		<0.001015			<0.001015	<0.00102	<0.001015		
11/28/2018				<0.001015					
1/9/2019	<0.001015		<0.001015						
5/28/2019								<0.001015	
5/29/2019		<0.001015			<0.001015	<0.00102	<0.001015		
5/30/2019				<0.001015					
9/30/2019		<0.001015		<0.001015					
10/1/2019	<0.001015		<0.001015						
10/2/2019					<0.001015	<0.00102	<0.001015	<0.001015	
3/30/2020	<0.001015	<0.001015	<0.001015						
3/31/2020				<0.001015	<0.001015	<0.00102	<0.001015	<0.001015	
9/2/2020	<0.001015	<0.001015	<0.001015	<0.001015					<0.001015
9/8/2020								<0.001015	
9/9/2020					<0.001015	<0.00102	<0.001015		
5/11/2021		<0.001015				0.000602 (J)	<0.001015	<0.001015	
5/12/2021					<0.001015				
5/18/2021	<0.001015		<0.001015	<0.001015					
5/24/2021									<0.001015
10/18/2021							<0.001015	<0.001015	
10/19/2021					<0.001015	<0.00102			
10/26/2021		<0.001015	<0.001015						
10/27/2021	<0.001015			<0.001015					
11/2/2021									<0.001015
5/23/2022			<0.001015						
5/24/2022	<0.001015	<0.001015		<0.001015					
5/25/2022									<0.001015
5/31/2022					<0.001015	0.00063 (J)	<0.001015	<0.001015	
10/31/2022	<0.001015		<0.001015	<0.001015					
11/1/2022					<0.001015	0.000558 (J)	<0.001015	<0.001015	<0.001015
11/2/2022		<0.001015							

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		0.34 (J)		1.02					
3/2/2016	0.31 (J)				<5		<5		<5
4/19/2016	0.335 (J)								
4/20/2016		<5		1.1	<5		<5		<5
6/8/2016	0.556 (J)	0.538 (J)		0.701 (J)	0.511 (J)		0.496 (J)		0.514 (J)
8/30/2016									<5
8/31/2016	<5	<5		<5	<5		<5		
10/18/2016									<5
10/19/2016	<5	<5		<5	<5		<5		
3/21/2017	<5								
3/22/2017		<5		2.1 (J)	<5		6.9		<5
5/2/2017	6								1.8 (J)
5/3/2017		4.1 (J)		3.6 (J)	2.1 (J)		6.6		
6/6/2017	<5								<5
6/7/2017		<5		<5	<5		6		
9/13/2017	4.7 (J)			<5	<5		2.2 (J)		<5
9/14/2017		<5							
5/1/2018	<5								
5/2/2018		<5		<5	<5		4.1 (J)		1.6 (J)
8/28/2018	<5	<5							
8/29/2018				2.3 (J)	<5		<5		<5
11/27/2018									<5
11/28/2018	4.1 (J)	<5		<5	<50 (O)		4.9 (J)		
1/8/2019			93.7			10.3			
5/29/2019	5.75			24.1	7.04		49.5 (o)		67.6 (o)
5/30/2019		3.76							
9/30/2019		2.77		37.4					
10/1/2019	7.82		5.19		35.3		47.7		61.6
10/2/2019						7.18			
3/30/2020	28.4								
3/31/2020		20.1	20.3	57.5	35.8	61.1	23.2		34.7
4/1/2020									
9/1/2020	23.1	15.6	30.1	42.8	32.1	47.5	14.2		
9/2/2020								30.6	18.5
5/11/2021		13.2							
5/18/2021	16.5		24.9		25.1	32.8			
5/19/2021				16.5			50.4	39.7	
5/25/2021									59.2
10/26/2021							21	47.3	
10/27/2021		5.72	6.04						98.5
11/1/2021	10.9				27	10.9			
11/2/2021				133					
5/23/2022				29.3	13	6.64			
5/24/2022	21	14.7	5.73				38.3		
5/25/2022								122	105
11/1/2022			11.4	47.700001	15.3	12.3	86.900002	136	86.099998
11/2/2022	12.1	10.2							

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<5
4/19/2016		<5
4/20/2016		
6/8/2016		0.489 (J)
8/30/2016		
8/31/2016		<5
10/18/2016		
10/19/2016		<5
3/21/2017		<5
3/22/2017		
5/2/2017		<5
5/3/2017		
6/6/2017		<5
6/7/2017		
9/13/2017		<5
9/14/2017		
5/1/2018		<5
5/2/2018		
8/28/2018		
8/29/2018		6.2
11/27/2018		<5
11/28/2018		
1/8/2019		
5/29/2019		3.27
5/30/2019		
9/30/2019		
10/1/2019		1.72
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		7.5
9/1/2020		
9/2/2020	63.6	7.61
5/11/2021		7.54
5/18/2021		
5/19/2021		
5/25/2021	39.5	
10/26/2021	75.1	26.4
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	13.6	
5/25/2022		1.8 (J)
11/1/2022	10.7	4.24
11/2/2022		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<5							3.3
4/19/2016		<5							2.68
6/8/2016		0.514 (J)							1.1
8/31/2016		<5							<1
10/19/2016		<5							<1
3/21/2017		<5							<1
5/2/2017		<5							<1
6/6/2017		<5							<1
9/12/2017									<1
9/13/2017		2.6 (J)							
5/1/2018		<5							<1
8/28/2018									<1
8/29/2018		3.9 (J)							
11/27/2018		<5							<1
1/8/2019							20.9		
3/20/2019						12.8			
5/29/2019		6.72							0.885 (J)
7/31/2019	2.65			23			11.4		
10/1/2019	0.854 (J)	3.4				8.49	5.9		<1
10/2/2019				10.6				10.5	
3/30/2020								11.1	
3/31/2020		17.5 (o)							1.69
4/1/2020				19.4		24.2			
8/31/2020									0.576 (J)
9/1/2020	2.21			7.61	26.6	30.6	16.9	13	
9/2/2020		13.3 (o)	40						
5/17/2021				10.2					
5/18/2021					17.4			16	<1
5/19/2021		3.11	40.9			7.48			
5/25/2021	1.19						26.6		
10/25/2021				24.5	11	55	28.7		
10/26/2021	0.966 (J)		38.1						
11/1/2021		11.9						20.2	1.56
5/23/2022						9.46			
5/24/2022	2.35						34.7	21.1	0.615 (J)
5/25/2022		6.29	35.1	3.58	49.1				
10/31/2022				13.2	55.799999	12.1	23		
11/1/2022		7.46	29.9					23	
11/2/2022	6.26								1.17 (J)

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
3/21/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	83.2	
10/1/2019	28.9	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	18.7	
8/31/2020		
9/1/2020	43.5	38.3
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	59.5	1.93
5/25/2021		
10/25/2021		
10/26/2021	73.2	
11/1/2021		5.66
5/23/2022	95.1	
5/24/2022		3.79
5/25/2022		
10/31/2022	103	
11/1/2022		6.08
11/2/2022		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							2.58	<5	
3/2/2016						0.79 (J)			
4/19/2016						0.674 (J)	2.3		
4/20/2016								<5	
6/7/2016						1	2.58	0.583 (J)	
8/30/2016							2.81	<5	
8/31/2016						0.702 (J)			
10/18/2016								<5	
10/19/2016						0.739 (J)	5.06		
3/21/2017						<5	3.4 (J)		
3/22/2017								<5	
5/2/2017						<5	2.7 (J)		
5/3/2017								<5	
6/6/2017						<5	1.5 (J)		
6/7/2017								<5	
9/12/2017						<5	1.9 (J)		
9/14/2017								<5	
5/1/2018						<5	1.4 (J)		
5/2/2018								<5	
8/28/2018						<5	<5		
8/29/2018								1.6 (J)	
11/27/2018						<5	2.3 (J)	2.7 (J)	
11/28/2018									
1/8/2019				31.2					1.75
5/29/2019						0.747 (J)	2.92	5.51	
7/31/2019	171	18.4							
9/30/2019									
10/1/2019	17.2	4.89				0.61 (J)	2.09	7.4	
10/2/2019				92.3					5.8
3/30/2020									
3/31/2020				84.5		1.02	4.12	23.7 (o)	0.98 (J)
4/1/2020		18.1							
9/1/2020	93.2	24.5	9.25			0.705 (J)	1.83	11	1.47
9/2/2020				59.7	4.39				
5/17/2021			6.92						
5/18/2021						0.883 (J)	4.43		
5/24/2021		3.99			4.94				
5/25/2021	72.3			17					
10/26/2021	140	29.5	4.23	122					
10/27/2021									
11/1/2021						1.01	3.34		
11/2/2021					4.28			15	1.34
5/24/2022	103			92.3					
5/25/2022		4.01	4.25		4.24	1.41 (J)	1.97 (J)	5.53	2.91
10/31/2022	110				4.57		1.02 (J)	15.2	7.44
11/1/2022		5.37	11			1.66 (J)			
11/2/2022				19.9					

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	0.36 (J)	0.3 (J)
3/2/2016		
4/19/2016	0.435 (J)	
4/20/2016		0.514 (J)
6/7/2016	1.22	0.971 (J)
8/30/2016	1.08	
8/31/2016		0.445 (J)
10/18/2016		
10/19/2016	1.01	0.366 (J)
3/21/2017		
3/22/2017	<5	<5
5/2/2017		
5/3/2017	1.4 (J)	<5
6/6/2017		
6/7/2017	1.5 (J)	<5
9/12/2017		
9/14/2017	1.8 (J)	<5
5/1/2018		
5/2/2018	<5	<5
8/28/2018		
8/29/2018	<5	
11/27/2018		
11/28/2018	<5	<5
1/8/2019		
5/29/2019	1.17	2.77
7/31/2019		
9/30/2019		2.51
10/1/2019	1.04	
10/2/2019		
3/30/2020		4.78
3/31/2020	1.21	
4/1/2020		
9/1/2020		
9/2/2020	1.02	3.59
5/17/2021	0.981 (J)	
5/18/2021		4.6
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		5.17
11/1/2021		
11/2/2021	1.37	
5/24/2022		7.14
5/25/2022	1.27 (J)	
10/31/2022	1.22 (J)	33.799999
11/1/2022		
11/2/2022		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					8.59	7.2	7.44	7.04	
3/1/2016		<5		<5					
4/19/2016					8.27	7.22	7.66	6.74	
4/20/2016		<5		<5					
6/6/2016					8.66			7.04	
6/7/2016		0.504 (J)				7.92	8.16		
6/8/2016				0.51 (J)					
8/30/2016		<5			9.74	8.17	8.43	7.57	
8/31/2016				<5					
10/18/2016		<5			10.2	7.99	8.47	6.62	
10/19/2016				<5					
3/20/2017					8.3	6.1	7.4	7	
3/22/2017		<5		<5					
5/2/2017					6.6	5	6.3	5.6	
5/3/2017		2.7 (J)		2.7 (J)					
6/6/2017					7.6	5.3	7.1	6.6	
6/7/2017		<5		<5					
9/12/2017								7.2	
9/13/2017					8.4	4.9 (J)	7.3		
9/14/2017		<5		<5					
5/1/2018						4.2 (J)	6.9	5.9	
5/2/2018		<5		<5	5.9				
8/28/2018				<5					
8/29/2018		<5							
11/26/2018								5.1	
11/27/2018		<5			22		6.5		
11/28/2018				1.4 (J)					
1/9/2019	3.69		1.74						
5/28/2019								7.1	
5/29/2019		6.01			23.3	5.94	7.81		
5/30/2019				5.91					
9/30/2019		5.29		3.77					
10/1/2019	2		7						
10/2/2019					17.5	6.04	7.62	6.88	
3/30/2020	9.65	33.1	75.8						
3/31/2020				43.5	24.3	6.83	7.98	10.8	
9/2/2020	6.7	15.8	24	21.9					2.26
9/8/2020								6.52	
9/9/2020					16.5	6.08	7.13		
5/11/2021		35.4				7.92	7.73	6.8	
5/12/2021					16.3				
5/18/2021	5.53		19.6	27.7					
5/24/2021									2.59
10/18/2021							7.36	6.58	
10/19/2021					15.5	7.48			
10/26/2021		25.7	58.2						
10/27/2021	5.31			6.33					
11/2/2021									2.08
5/23/2022			8.35						
5/24/2022	6.06	81.3		5.76					
5/25/2022									2.13
5/31/2022					12.8	8.09	7.02	7.94	

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
10/31/2022	6.09		10	11.4					
11/1/2022					11.3	7.11	6.83	4.59	1.85 (J)
11/2/2022		7.58							

Time Series

Constituent: TDS (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		326		395					
3/2/2016	426				351		319		266
4/19/2016	442								
4/20/2016		366		376	353		305		311
6/8/2016	461	314		324	330		287		353
8/30/2016									328
8/31/2016	456	368		367	354		295		
10/18/2016									310
10/19/2016	444	381		367	354		305		
1/31/2017	422						325		312
2/1/2017		342		391	360				
5/2/2017	442								300
5/3/2017		369		373	341		306		
6/6/2017	433								335
6/7/2017		340		367	337		320		
9/13/2017	456			378	359		332		339
9/14/2017		391							
5/1/2018	416								
5/2/2018		343		330	310		320		301
8/28/2018	420	375							
8/29/2018				352	307		312		318
11/27/2018									295
11/28/2018	408	378		357	336		304		
1/8/2019			462			348			
5/29/2019	403			367	321		307		318
5/30/2019		377							
9/30/2019		361		399					
10/1/2019	430		393		344		290		317
10/2/2019						321			
3/30/2020	419								
3/31/2020		387	413	393	331	328	290		317
4/1/2020									
9/1/2020	454	392	403	399	356	338	285		
9/2/2020								361	327
5/11/2021		391							
5/18/2021	450		401		332	329			
5/19/2021				422			300	362	
5/25/2021									318
10/26/2021							280	355	
10/27/2021		373	400						327
11/1/2021	480				349	352			
11/2/2021				390					
5/23/2022				404	345	352			
5/24/2022	464	398	403				257		
5/25/2022								343	328
11/1/2022			452	419	363	365	313	340	347
11/2/2022	404	344							

Time Series

Constituent: TDS (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		182
4/19/2016		151
4/20/2016		
6/8/2016		168
8/30/2016		
8/31/2016		188
10/18/2016		
10/19/2016		180
1/31/2017		166
2/1/2017		
5/2/2017		183
5/3/2017		
6/6/2017		187
6/7/2017		
9/13/2017		202
9/14/2017		
5/1/2018		197
5/2/2018		
8/28/2018		
8/29/2018		192
11/27/2018		190
11/28/2018		
1/8/2019		
5/29/2019		198
5/30/2019		
9/30/2019		
10/1/2019		236
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		231
9/1/2020		
9/2/2020	498	208
5/11/2021		279
5/18/2021		
5/19/2021		
5/25/2021	520	
10/26/2021	474	269
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	508	
5/25/2022		255
11/1/2022	464	278
11/2/2022		

Time Series

Constituent: TDS (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
9/12/2017		
9/13/2017		
5/1/2018		
8/28/2018		
8/29/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	481	
10/1/2019	470	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	319	
8/31/2020		
9/1/2020	479	308
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	479	271
5/25/2021		
10/25/2021		
10/26/2021	493	
11/1/2021		282
5/23/2022	462	
5/24/2022		296
5/25/2022		
10/31/2022	482	
11/1/2022		275
11/2/2022		

Time Series

Constituent: TDS (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							27.3	273	
3/2/2016						27.3			
4/19/2016						33.3	38		
4/20/2016								269	
6/7/2016						44	48.7	272	
8/30/2016							32.7	244	
8/31/2016						29.3			
10/18/2016								238	
10/19/2016						29.3	36		
1/31/2017						36.7	40.7	266	
5/2/2017						28	30.7		
5/3/2017								259	
6/6/2017						36.7	41.3		
6/7/2017								255	
9/12/2017						35.3	34.7		
9/14/2017								276	
5/1/2018						34.7	39.3		
5/2/2018								247	
8/28/2018						34	26		
8/29/2018								263	
11/27/2018						41.3	32	248	
11/28/2018									
1/8/2019				504					76.7
5/29/2019						40	39.3	259	
7/31/2019	345	241							
9/30/2019									
10/1/2019	346	261				36.7	32	243	
10/2/2019				430					98
3/30/2020									
3/31/2020				418		37.3	42.7	243	81.3
4/1/2020		105							
9/1/2020	362	271	391			39.3	36	253	94
9/2/2020				471	36				
5/17/2021			386						
5/18/2021						38	47.3		
5/24/2021		244			39.3				
5/25/2021	378			420					
10/26/2021	362	252	362	448					
10/27/2021									
11/1/2021						35.3	32		
11/2/2021					34.7			297	77.3
5/24/2022	372			486					
5/25/2022		236	359		37.3	50.7	48.7	252	75.3
10/31/2022	363				40		71.300003	194	115
11/1/2022		228	858			40			
11/2/2022				446					

Time Series

Constituent: TDS (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	45.3	129
3/2/2016		
4/19/2016	46	
4/20/2016		128
6/7/2016	46	140
8/30/2016	30	
8/31/2016		112
10/18/2016		
10/19/2016	37.3	134
1/31/2017	43.3	134
5/2/2017		
5/3/2017	44.7	127
6/6/2017		
6/7/2017	45.3	134
9/12/2017		
9/14/2017	48.7	141
5/1/2018		
5/2/2018	44	133
8/28/2018		
8/29/2018	50	
11/27/2018		
11/28/2018	50.7	138
1/8/2019		
5/29/2019	48.7	132
7/31/2019		
9/30/2019		137
10/1/2019	38	
10/2/2019		
3/30/2020		135
3/31/2020	42	
4/1/2020		
9/1/2020		
9/2/2020	37.3	129
5/17/2021	46.7	
5/18/2021		175
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		123
11/1/2021		
11/2/2021	38	
5/24/2022		148
5/25/2022	40.7	
10/31/2022	46	291
11/1/2022		
11/2/2022		

Time Series

Constituent: TDS (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					26.7	30.7	40	<25	
3/1/2016		309		314					
4/19/2016					<25	<25	32	<25	
4/20/2016		324		338					
6/6/2016					32.7			28.7	
6/7/2016		314				35.3	38.7		
6/8/2016				288					
8/30/2016		308			33.3	27.3	31.3	25.3	
8/31/2016				334					
10/18/2016		295			27.3	<25	26.7	<25	
10/19/2016				333					
1/31/2017		303			32	32.7	30	26	
2/1/2017				330					
5/2/2017					31.3	30.7	30.7	<25	
5/3/2017		300		338					
6/6/2017					35.3	34.7	32.7	42.7	
6/7/2017		284		300					
9/12/2017								26.7	
9/13/2017					36.7	39.3	38		
9/14/2017		325		350					
5/1/2018						42	35.3	34.7	
5/2/2018		306		333	34				
8/28/2018				324					
8/29/2018		287							
11/26/2018								32.7	
11/27/2018		303			50.7	31.3	36		
11/28/2018				330					
1/9/2019	240		276						
5/28/2019								31.3	
5/29/2019		291			58	40	37.3		
5/30/2019				315					
9/30/2019		293		319					
10/1/2019	182		324						
10/2/2019					46	41.3	36.7	36	
3/30/2020	204	310	328						
3/31/2020				330	53.3	40	39.3	36.7	
9/2/2020	168	298	318	301					34
9/8/2020								39.3	
9/9/2020					42	40.7	42.7		
5/11/2021		318				35.3	44	46.7	
5/12/2021					40.7				
5/18/2021	192		331	314					
5/24/2021									26.7
10/18/2021							36	36	
10/19/2021					40	36			
10/26/2021		332	350						
10/27/2021	169			302					
11/2/2021									36
5/23/2022			331						
5/24/2022	228	303		268					
5/25/2022									29.3
5/31/2022					32	30.7	35.3	36.7	

Time Series

Constituent: TDS (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
10/31/2022	357		328	329					
11/1/2022					33.299999	36	36	31.299999	32
11/2/2022		293							

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-10V	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-12V	BY-AP-MW-13	BY-AP-MW-13V	BY-AP-MW-14
3/1/2016		<0.000203		<0.000203					
3/2/2016	<0.000203				<0.000203		<0.000203		<0.000203
4/19/2016	<0.000203								
4/20/2016		<0.000203		<0.000203	<0.000203		<0.000203		<0.000203
6/8/2016	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203		<0.000203
8/30/2016									<0.000203
8/31/2016	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203		
10/18/2016									<0.000203
10/19/2016	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203		
1/31/2017	<0.000203						<0.000203		<0.000203
2/1/2017		<0.000203		<0.000203	<0.000203				
5/2/2017	<0.000203								<0.000203
5/3/2017		<0.000203		<0.000203	<0.000203		<0.000203		
6/6/2017	<0.000203								<0.000203
6/7/2017		<0.000203		<0.000203	<0.000203		0.000878 (J)		
1/22/2018							<0.000203		
1/23/2018		<0.000203		<0.000203	<0.000203				<0.000203
1/24/2018	<0.000203								
5/1/2018	<0.000203								
5/2/2018		<0.000203		<0.000203	<0.000203		<0.000203		<0.000203
11/27/2018									<0.000203
11/28/2018	<0.000203	<0.000203		<0.000203	<0.000203		<0.000203		
1/8/2019			<0.000203			<0.000203			
5/29/2019	<0.000203			<0.000203	<0.000203		<0.000203		<0.000203
5/30/2019		<0.000203							
9/30/2019		<0.000203		<0.000203					
10/1/2019	<0.000203		<0.000203		<0.000203		<0.000203		<0.000203
10/2/2019						<0.000203			
3/30/2020	<0.000203								
3/31/2020		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		<0.000203
4/1/2020									
9/1/2020	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203		
9/2/2020								<0.000203	<0.000203
5/11/2021		<0.000203							
5/18/2021	<0.000203		<0.000203		<0.000203	<0.000203			
5/19/2021				<0.000203			<0.000203	<0.000203	
5/25/2021									<0.000203
10/26/2021							<0.000203	<0.000203	
10/27/2021		<0.000203	<0.000203						<0.000203
11/1/2021	<0.000203				<0.000203	<0.000203			
11/2/2021				<0.000203					
5/23/2022				<0.000203	<0.000203	<0.000203			
5/24/2022	<0.000203	<0.000203	<0.000203				<0.000203		
5/25/2022								<0.000203	<0.000203
11/1/2022			<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/2/2022	<0.000203	<0.000203							

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14V	BY-AP-MW-15
3/1/2016		
3/2/2016		<0.000203
4/19/2016		<0.000203
4/20/2016		
6/8/2016		<0.000203
8/30/2016		
8/31/2016		<0.000203
10/18/2016		
10/19/2016		<0.000203
1/31/2017		<0.000203
2/1/2017		
5/2/2017		<0.000203
5/3/2017		
6/6/2017		<0.000203
6/7/2017		
1/22/2018		<0.000203
1/23/2018		
1/24/2018		
5/1/2018		<0.000203
5/2/2018		
11/27/2018		<0.000203
11/28/2018		
1/8/2019		
5/29/2019		<0.000203
5/30/2019		
9/30/2019		
10/1/2019		<0.000203
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020		<0.000203
9/1/2020		
9/2/2020	<0.000203	<0.000203
5/11/2021		<0.000203
5/18/2021		
5/19/2021		
5/25/2021	<0.000203	
10/26/2021	<0.000203	<0.000203
10/27/2021		
11/1/2021		
11/2/2021		
5/23/2022		
5/24/2022	<0.000203	
5/25/2022		<0.000203
11/1/2022	<0.000203	<0.000203
11/2/2022		

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15V	BY-AP-MW-16	BY-AP-MW-16V	BY-AP-MW-17H	BY-AP-MW-17V	BY-AP-MW-18H	BY-AP-MW-19H	BY-AP-MW-1V	BY-AP-MW-2
3/2/2016		<0.000203							<0.000203
4/19/2016		<0.000203							<0.000203
6/8/2016		<0.000203							<0.000203
8/31/2016		<0.000203							<0.000203
10/19/2016		<0.000203							<0.000203
1/31/2017		<0.000203							<0.000203
5/2/2017		<0.000203							<0.000203
6/6/2017		<0.000203							<0.000203
1/23/2018		<0.000203							<0.000203
1/24/2018									<0.000203
5/1/2018		<0.000203							<0.000203
11/27/2018		<0.000203							<0.000203
1/8/2019								<0.000203	
3/20/2019						<0.000203			
5/29/2019		<0.000203							<0.000203
7/31/2019	<0.001			<0.000203			<0.000203		
10/1/2019	<0.001	<0.000203				<0.000203	<0.000203		<0.000203
10/2/2019				<0.000203				<0.000203	
3/30/2020								<0.000203	
3/31/2020		<0.000203							<0.000203
4/1/2020				<0.000203		<0.000203			
8/31/2020									<0.000203
9/1/2020	<0.001			<0.000203	<0.0002	<0.000203	<0.000203	<0.000203	
9/2/2020		<0.000203	<0.001						
5/17/2021				<0.000203					
5/18/2021					<0.0002			<0.000203	<0.000203
5/19/2021		<0.000203	9.13E-05 (J)			<0.000203			
5/25/2021	8.49E-05 (J)						<0.000203		
10/25/2021				<0.000203	<0.0002	<0.000203	<0.000203		
10/26/2021	7E-05 (J)		0.0001 (J)						
11/1/2021		<0.000203						<0.000203	<0.000203
5/23/2022						<0.000203			
5/24/2022	0.00014 (J)						<0.000203	<0.000203	<0.000203
5/25/2022		<0.000203	9E-05 (J)	<0.000203	0.0001 (J)				
10/31/2022				<0.000203	0.000166 (J)	<0.000203	<0.000203		
11/1/2022		<0.000203	0.000112 (J)					<0.000203	
11/2/2022	0.000133 (J)								<0.000203

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-20H	BY-AP-MW-20V
3/2/2016		
4/19/2016		
6/8/2016		
8/31/2016		
10/19/2016		
1/31/2017		
5/2/2017		
6/6/2017		
1/23/2018		
1/24/2018		
5/1/2018		
11/27/2018		
1/8/2019		
3/20/2019		
5/29/2019		
7/31/2019	<0.000203	
10/1/2019	<0.000203	
10/2/2019		
3/30/2020		
3/31/2020		
4/1/2020	<0.000203	
8/31/2020		
9/1/2020	<0.000203	<0.000203
9/2/2020		
5/17/2021		
5/18/2021		
5/19/2021	<0.000203	<0.000203
5/25/2021		
10/25/2021		
10/26/2021	<0.000203	
11/1/2021		<0.000203
5/23/2022	<0.000203	
5/24/2022		<0.000203
5/25/2022		
10/31/2022	<0.000203	
11/1/2022		<0.000203
11/2/2022		

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-22H	BY-AP-MW-23H	BY-AP-MW-23V	BY-AP-MW-24H	BY-AP-MW-25H	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5	BY-AP-MW-5V
3/1/2016							<0.000203	<0.000203	
3/2/2016						<0.000203			
4/19/2016						<0.000203	<0.000203		
4/20/2016								<0.000203	
6/7/2016						<0.000203	<0.000203	<0.000203	
8/30/2016							<0.000203	<0.000203	
8/31/2016						<0.000203			
10/18/2016								<0.000203	
10/19/2016						<0.000203	<0.000203		
1/31/2017						<0.000203	<0.000203	<0.000203	
5/2/2017						<0.000203	<0.000203		
5/3/2017								<0.000203	
6/6/2017						<0.000203	<0.000203		
6/7/2017								<0.000203	
1/24/2018						<0.000203	<0.000203	<0.000203	
5/1/2018						<0.000203	<0.000203		
5/2/2018								<0.000203	
11/27/2018						<0.000203	<0.000203	<0.000203	
11/28/2018									
1/8/2019				<0.000203					<0.000203
5/29/2019						<0.000203	<0.000203	<0.000203	
7/31/2019	<0.000203	<0.000203							
9/30/2019									
10/1/2019	<0.000203	<0.000203				<0.000203	<0.000203	<0.000203	
10/2/2019				<0.000203					<0.000203
3/30/2020									
3/31/2020				<0.000203		<0.000203	<0.000203	<0.000203	<0.000203
4/1/2020		<0.000203							
9/1/2020	<0.000203	<0.000203	<0.000203			<0.000203	<0.000203	<0.000203	<0.000203
9/2/2020				<0.000203	<0.000203				
5/17/2021			<0.000203						
5/18/2021						<0.000203	<0.000203		
5/24/2021		<0.000203			<0.000203				
5/25/2021	<0.000203			<0.000203					
10/26/2021	<0.000203	<0.000203	<0.000203	<0.000203					
10/27/2021									
11/1/2021						<0.000203	<0.000203		
11/2/2021					<0.000203			<0.000203	<0.000203
5/24/2022	<0.000203			<0.000203					
5/25/2022		<0.000203	<0.000203		<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
10/31/2022	<0.000203				<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/1/2022		<0.000203	<0.000203			<0.000203			
11/2/2022				<0.000203					

Time Series

Constituent: Thallium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7
3/1/2016	<0.000203	<0.000203
3/2/2016		
4/19/2016	<0.000203	
4/20/2016		<0.000203
6/7/2016	<0.000203	<0.000203
8/30/2016	<0.000203	
8/31/2016		<0.000203
10/18/2016		
10/19/2016	<0.000203	<0.000203
1/31/2017	<0.000203	<0.000203
5/2/2017		
5/3/2017	<0.000203	<0.000203
6/6/2017		
6/7/2017	<0.000203	<0.000203
1/24/2018	<0.000203	<0.000203
5/1/2018		
5/2/2018	<0.000203	<0.000203
11/27/2018		
11/28/2018	<0.000203	<0.000203
1/8/2019		
5/29/2019	<0.000203	<0.000203
7/31/2019		
9/30/2019		<0.000203
10/1/2019	<0.000203	
10/2/2019		
3/30/2020		<0.000203
3/31/2020	<0.000203	
4/1/2020		
9/1/2020		
9/2/2020	<0.000203	<0.000203
5/17/2021	<0.000203	
5/18/2021		<0.000203
5/24/2021		
5/25/2021		
10/26/2021		
10/27/2021		<0.000203
11/1/2021		
11/2/2021	<0.000203	
5/24/2022		<0.000203
5/25/2022	<0.000203	
10/31/2022	<0.000203	<0.000203
11/1/2022		
11/2/2022		

Time Series

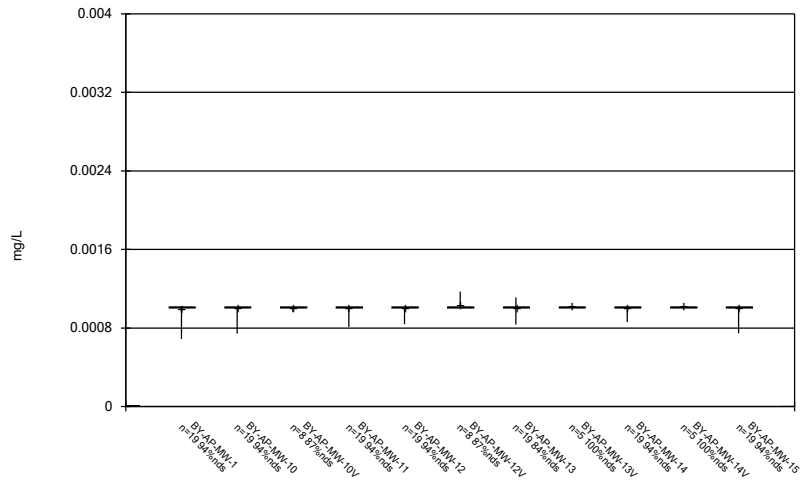
Constituent: Thallium (mg/L) Analysis Run 12/28/2022 4:44 PM View: Descriptive

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7V	BY-AP-MW-8	BY-AP-MW-8V	BY-AP-MW-9	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-AP-MW-25V
2/23/2016					<0.000203	<0.000203	<0.000203	<0.000203	
3/1/2016		<0.000203		<0.000203					
4/19/2016					<0.000203	<0.000203	<0.000203	<0.000203	
4/20/2016		<0.000203		<0.000203					
6/6/2016					<0.000203				<0.000203
6/7/2016		<0.000203				<0.000203	<0.000203		
6/8/2016				<0.000203					
8/30/2016		<0.000203			<0.000203	<0.000203	<0.000203	<0.000203	
8/31/2016				<0.000203					
10/18/2016		<0.000203			<0.000203	<0.000203	<0.000203	<0.000203	
10/19/2016				<0.000203					
1/31/2017		<0.000203			<0.000203	<0.000203	<0.000203	<0.000203	
2/1/2017				<0.000203					
5/2/2017					<0.000203	<0.000203	<0.000203	<0.000203	
5/3/2017		<0.000203		<0.000203					
6/6/2017					<0.000203	<0.000203	<0.000203	<0.000203	
6/7/2017		<0.000203		<0.000203					
1/23/2018				<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
1/24/2018		<0.000203							
5/1/2018						<0.000203	<0.000203	<0.000203	
5/2/2018		<0.000203		<0.000203	<0.000203				
11/26/2018									<0.000203
11/27/2018		<0.000203			<0.000203	<0.000203	<0.000203		
11/28/2018				<0.000203					
1/9/2019	<0.000203		<0.000203						
5/28/2019								<0.000203	
5/29/2019		<0.000203			<0.000203	<0.000203	<0.000203		
5/30/2019				<0.000203					
9/30/2019		<0.000203		<0.000203					
10/1/2019	<0.000203		<0.000203						
10/2/2019					<0.000203	<0.000203	<0.000203	<0.000203	
3/30/2020	<0.000203	<0.000203	<0.000203						
3/31/2020				<0.000203	<0.000203	<0.000203	<0.000203	<0.000203	
9/2/2020	<0.000203	<0.000203	<0.000203	<0.000203					<0.000203
9/8/2020								<0.000203	
9/9/2020					<0.000203	<0.000203	<0.000203		
5/11/2021		<0.000203				<0.000203	<0.000203	<0.000203	
5/12/2021					<0.000203				
5/18/2021	<0.000203		<0.000203	<0.000203					
5/24/2021									<0.000203
10/18/2021							<0.000203	<0.000203	
10/19/2021					<0.000203	<0.000203			
10/26/2021		<0.000203	<0.000203						
10/27/2021	<0.000203			<0.000203					
11/2/2021									<0.000203
5/23/2022			<0.000203						
5/24/2022	<0.000203	<0.000203		<0.000203					
5/25/2022									<0.000203
5/31/2022					<0.000203	<0.000203	<0.000203	<0.000203	
10/31/2022	<0.000203		<0.000203	<0.000203					
11/1/2022					<0.000203	<0.000203	<0.000203	<0.000203	<0.000203
11/2/2022		<0.000203							

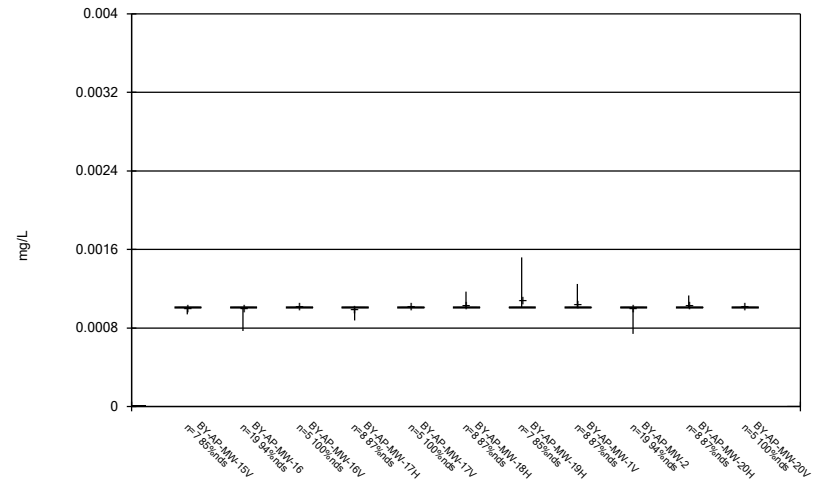
FIGURE B.

Box & Whiskers Plot



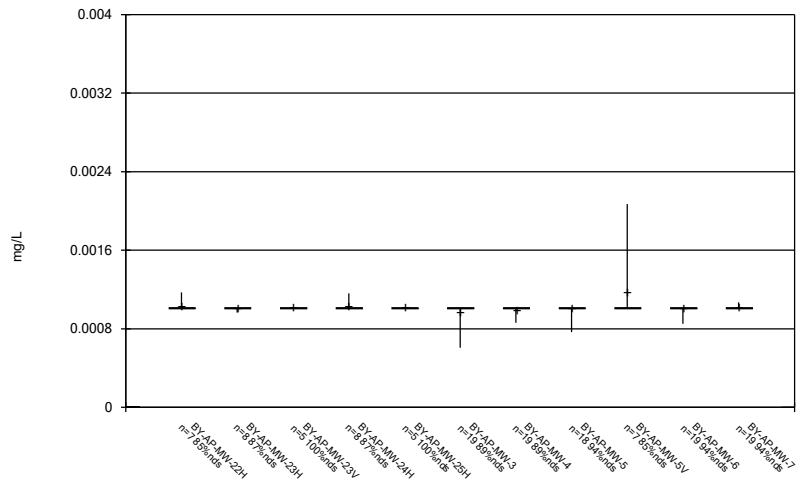
Constituent: Antimony Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



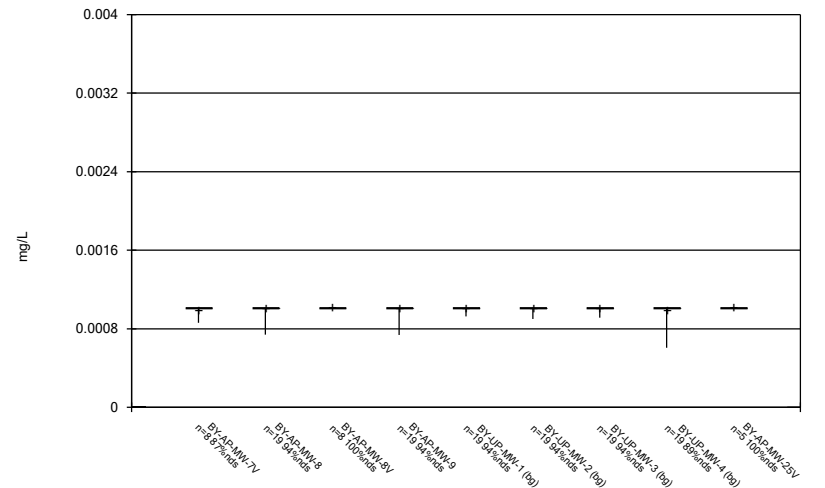
Constituent: Antimony Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



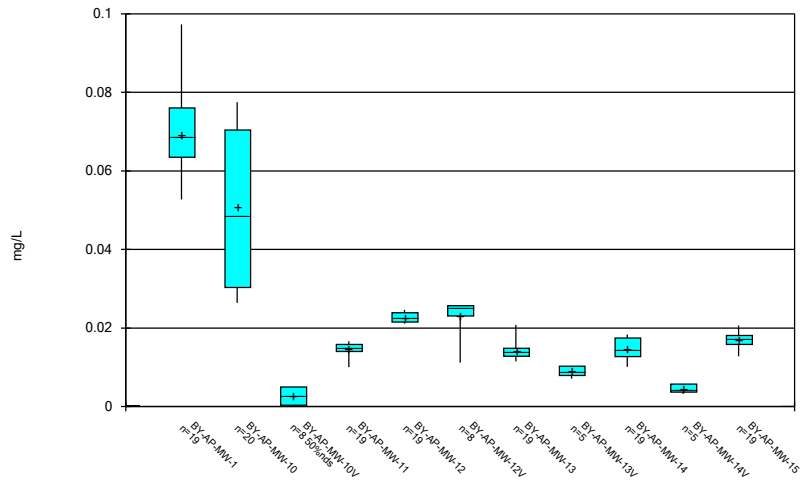
Constituent: Antimony Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



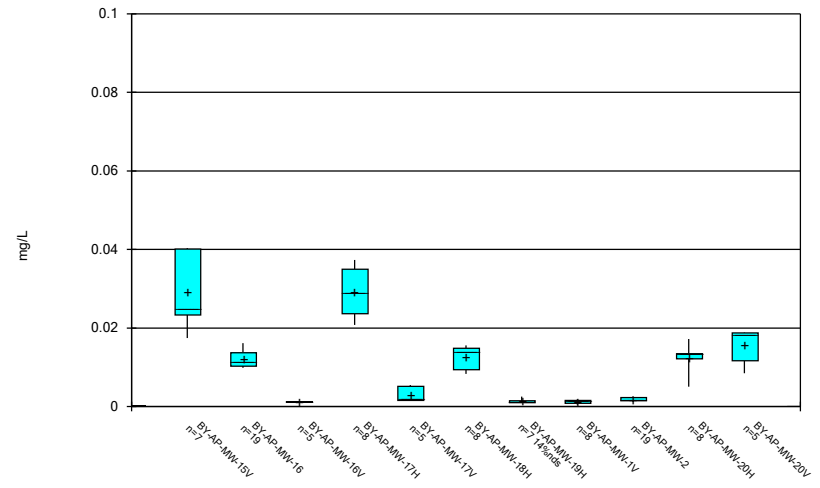
Constituent: Antimony Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



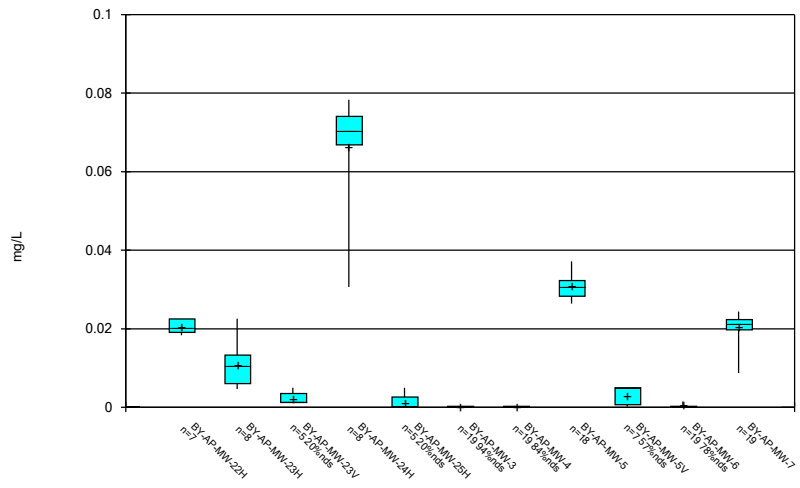
Constituent: Arsenic Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



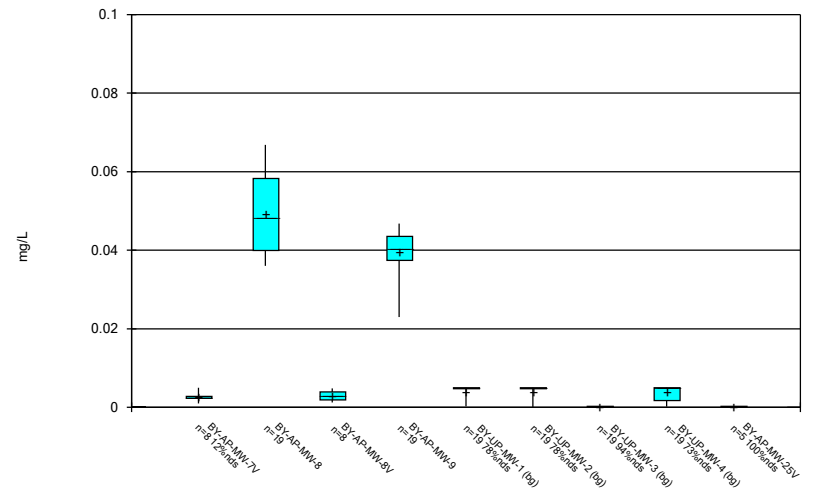
Constituent: Arsenic Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



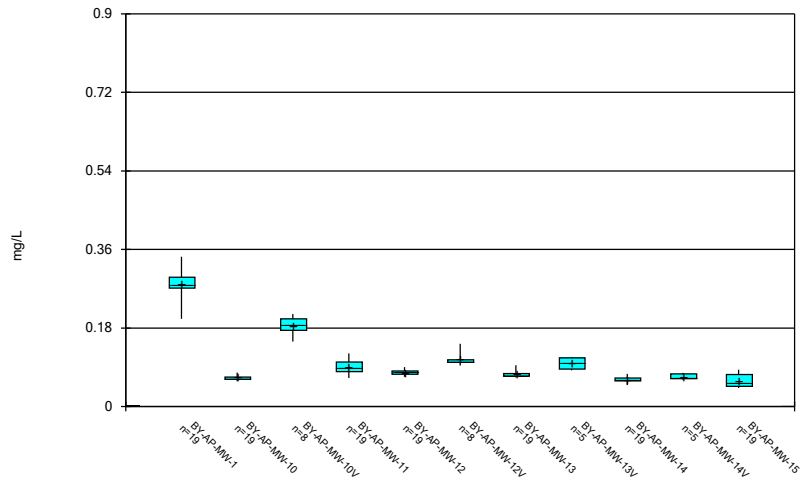
Constituent: Arsenic Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



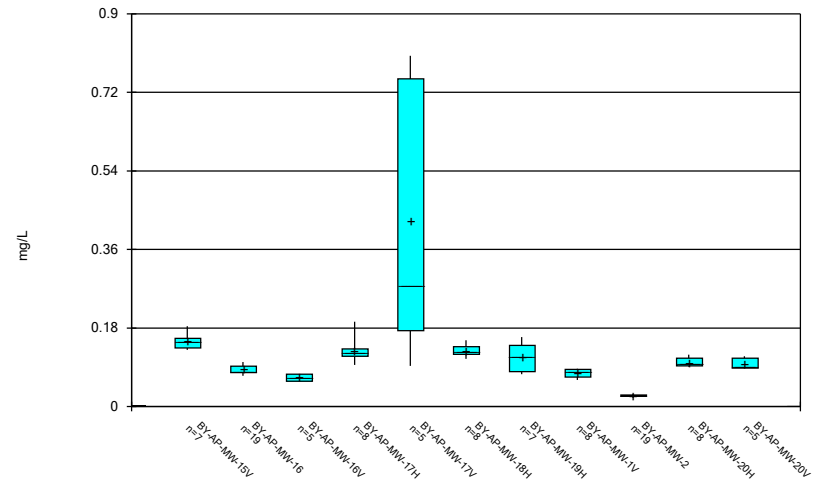
Constituent: Arsenic Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



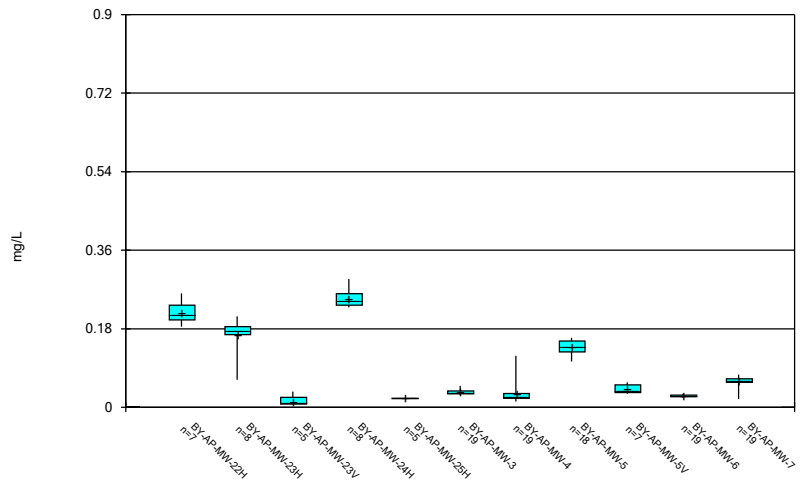
Constituent: Barium Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



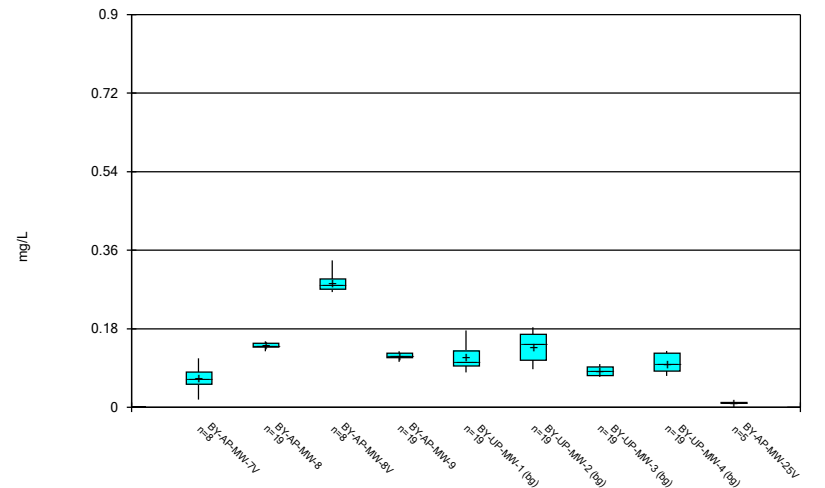
Constituent: Barium Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



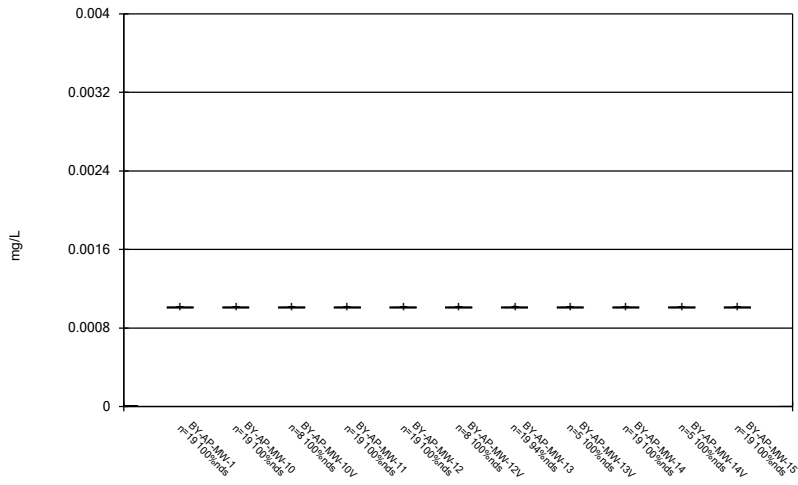
Constituent: Barium Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



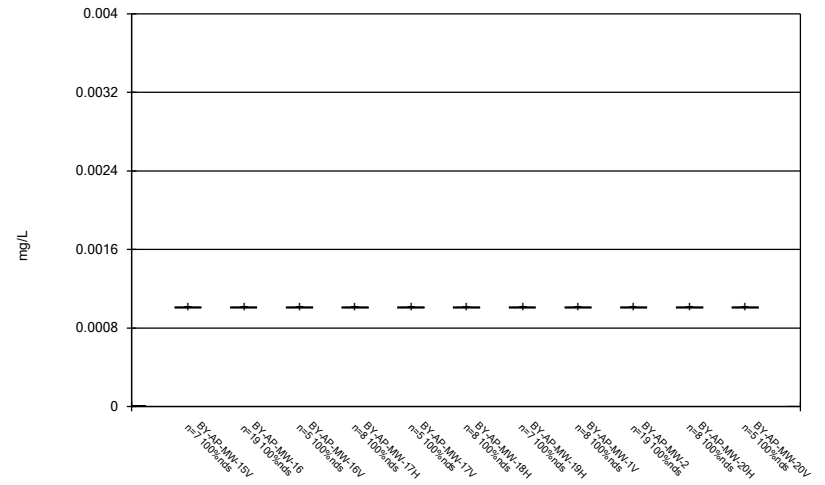
Constituent: Barium Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



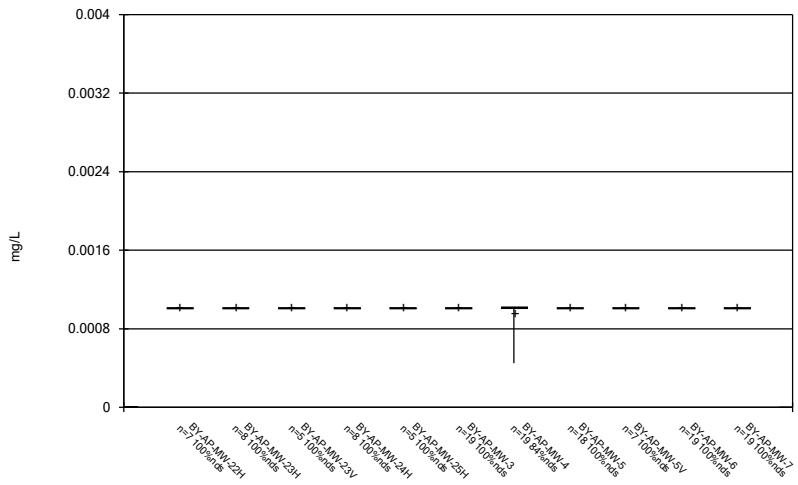
Constituent: Beryllium Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



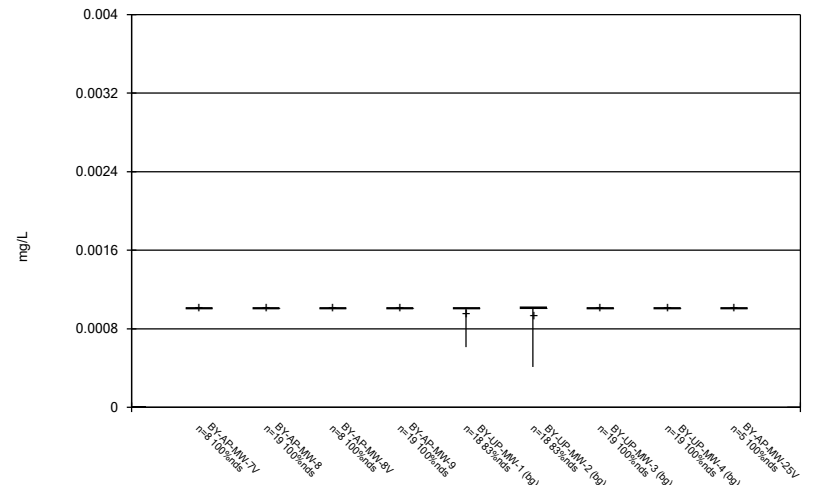
Constituent: Beryllium Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



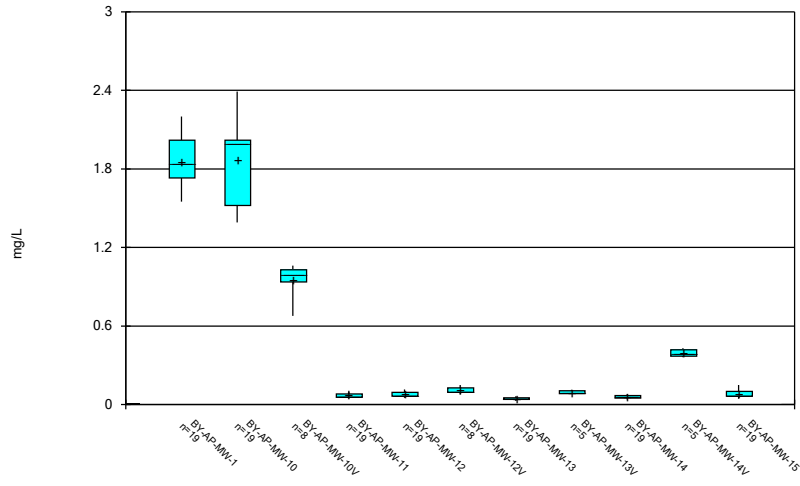
Constituent: Beryllium Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



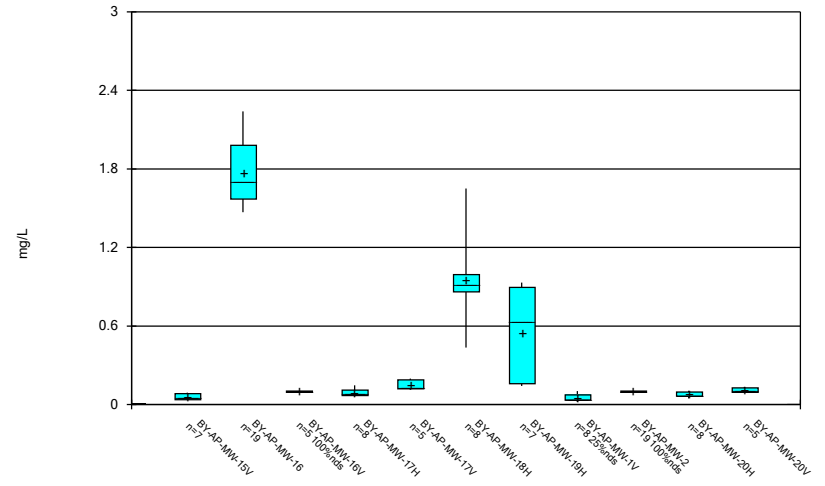
Constituent: Beryllium Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



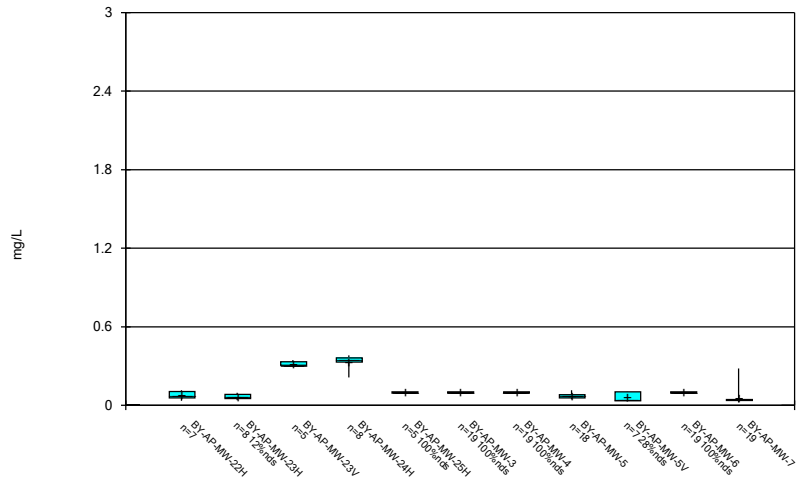
Constituent: Boron, total Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



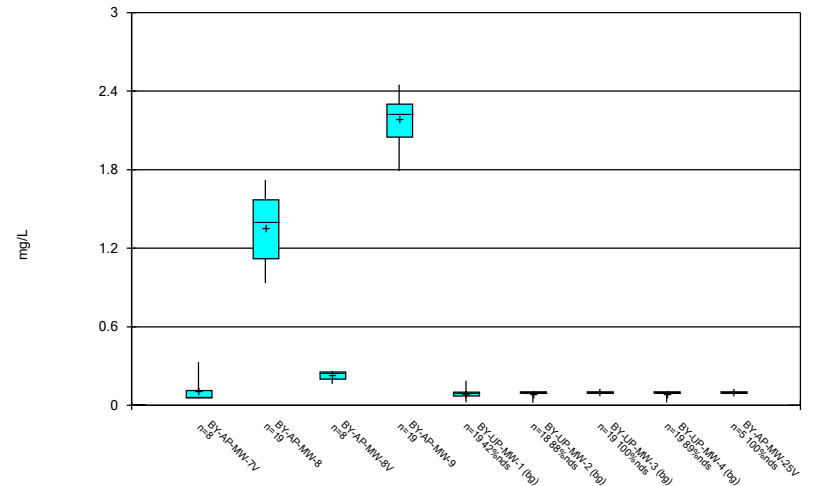
Constituent: Boron, total Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



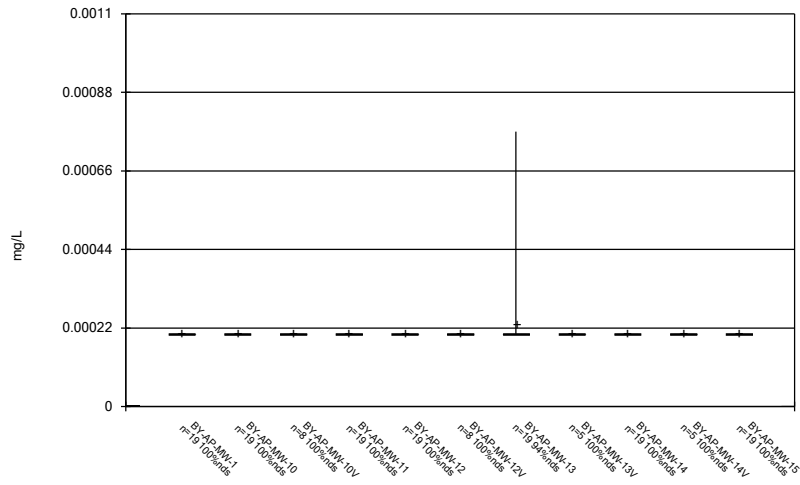
Constituent: Boron, total Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



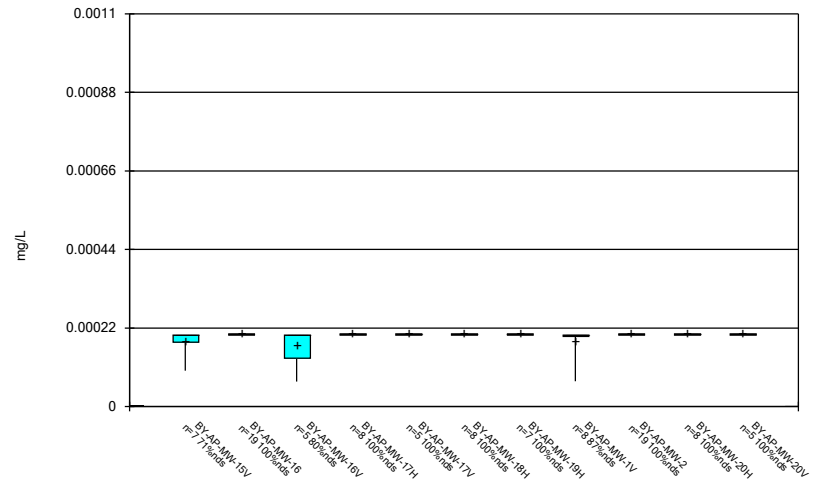
Constituent: Boron, total Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



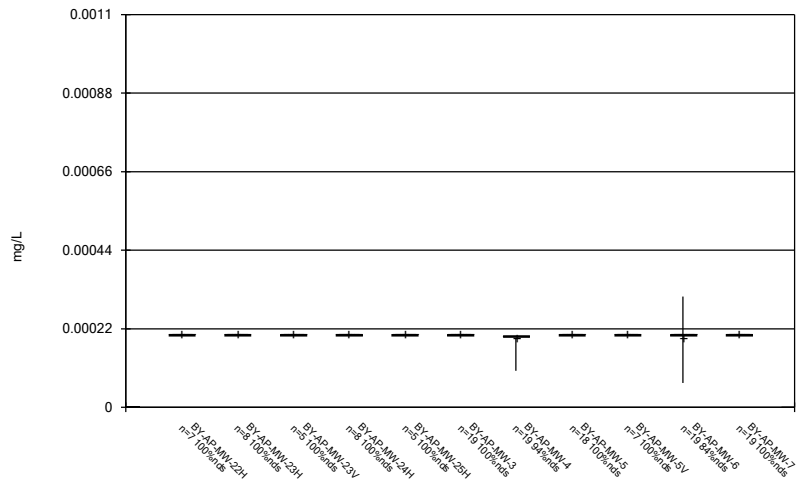
Constituent: Cadmium Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



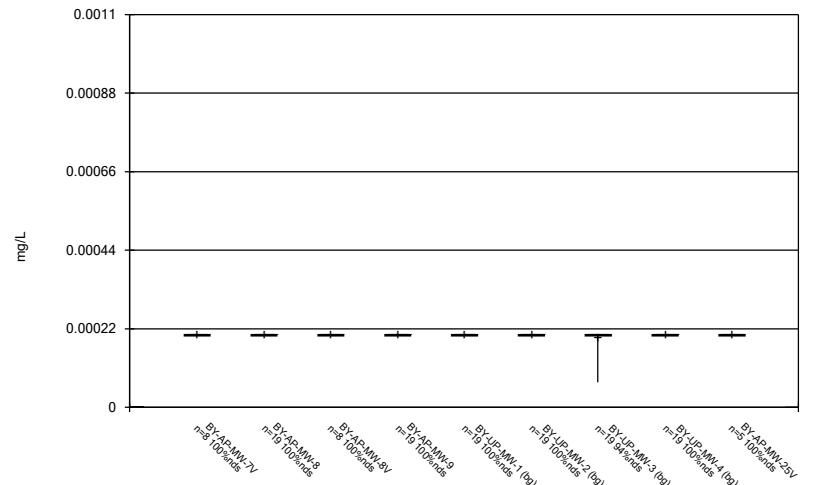
Constituent: Cadmium Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



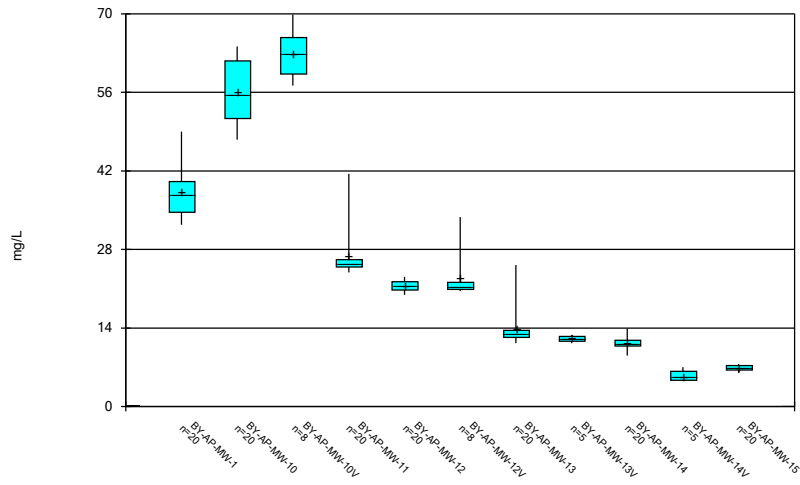
Constituent: Cadmium Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



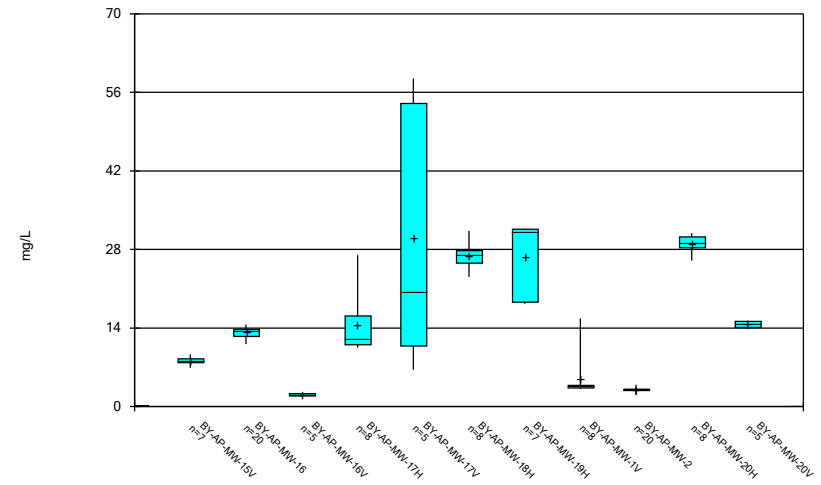
Constituent: Cadmium Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



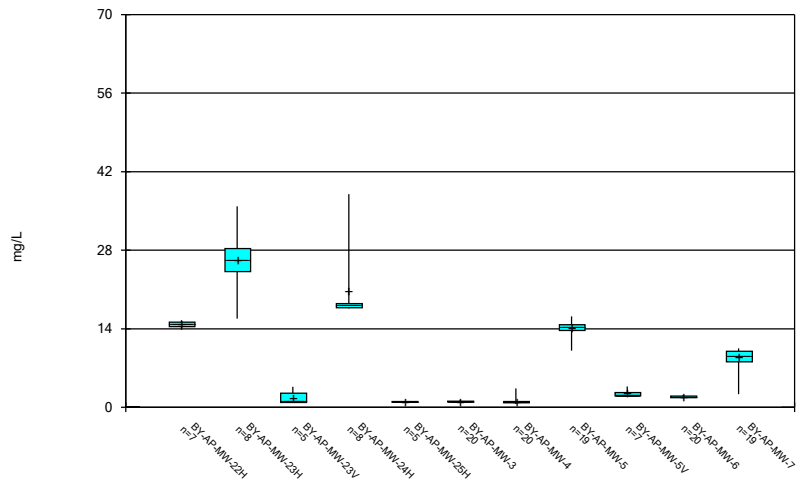
Constituent: Calcium, total Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



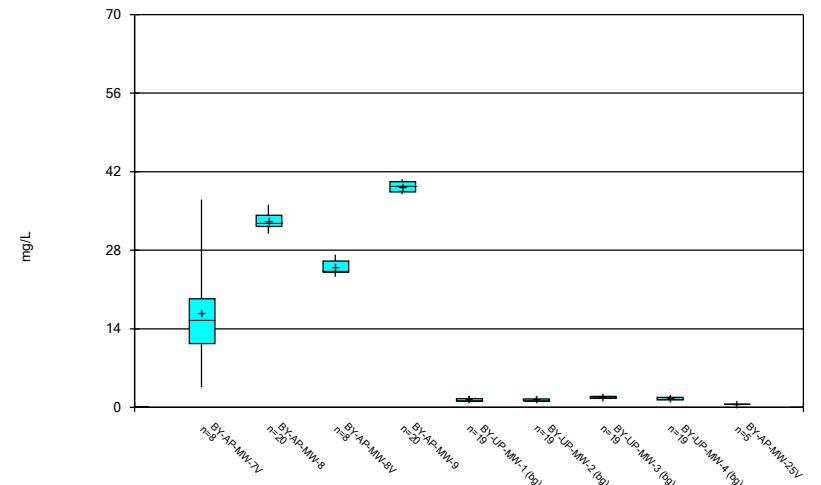
Constituent: Calcium, total Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



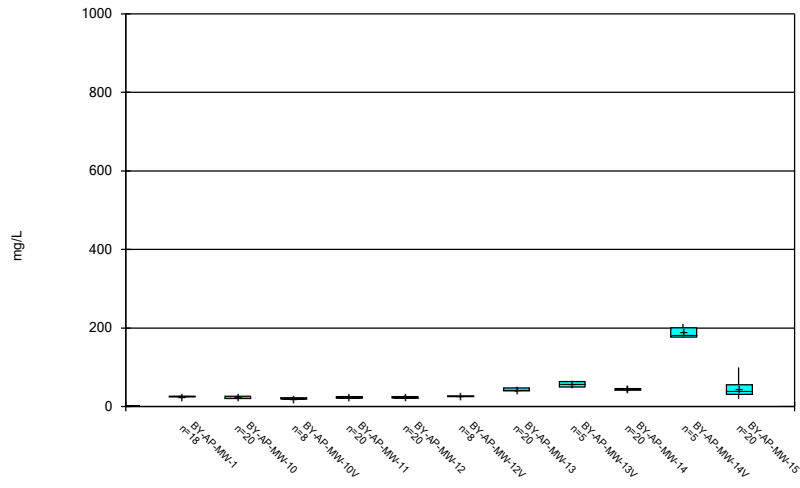
Constituent: Calcium, total Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



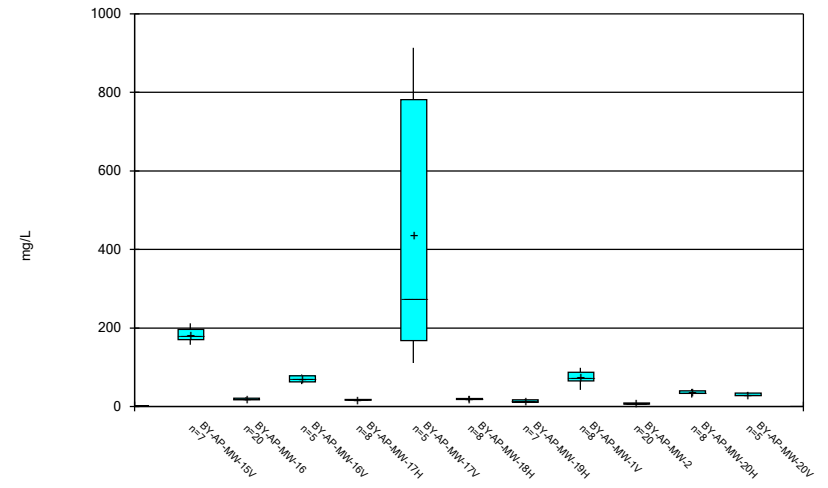
Constituent: Calcium, total Analysis Run 12/28/2022 4:45 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



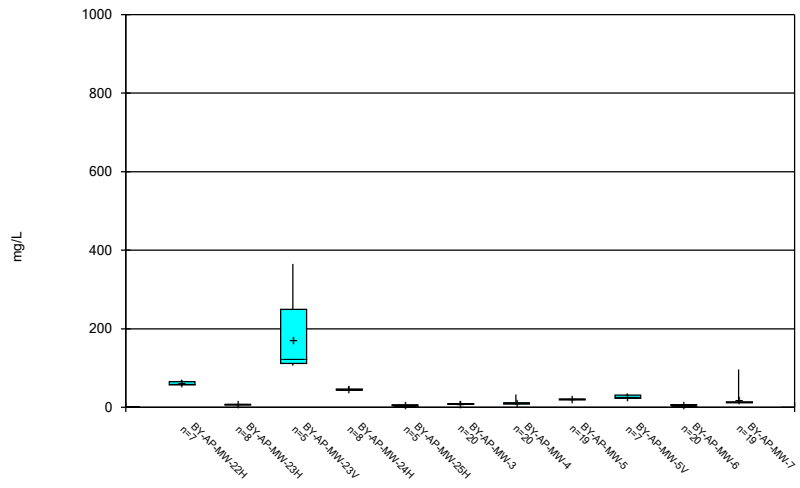
Constituent: Chloride, Total Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



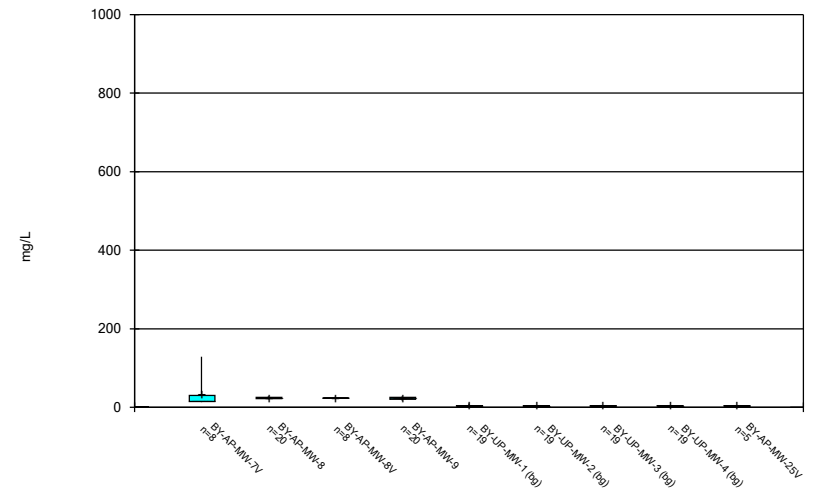
Constituent: Chloride, Total Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



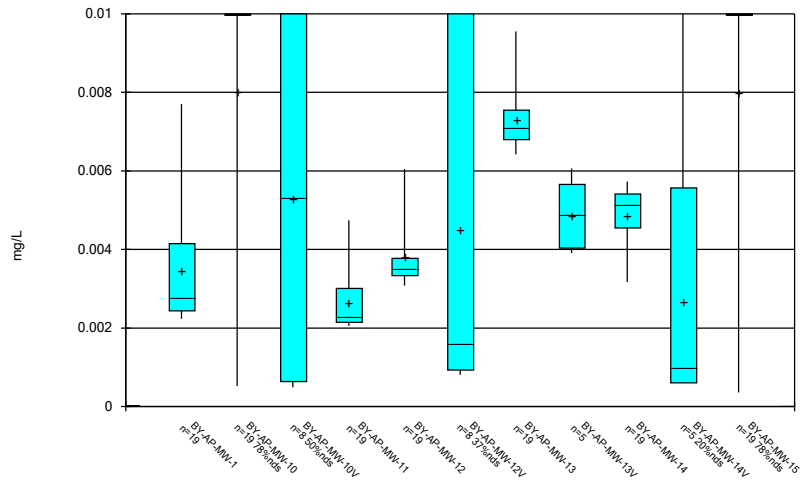
Constituent: Chloride, Total Analysis Run 12/28/2022 4:45 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



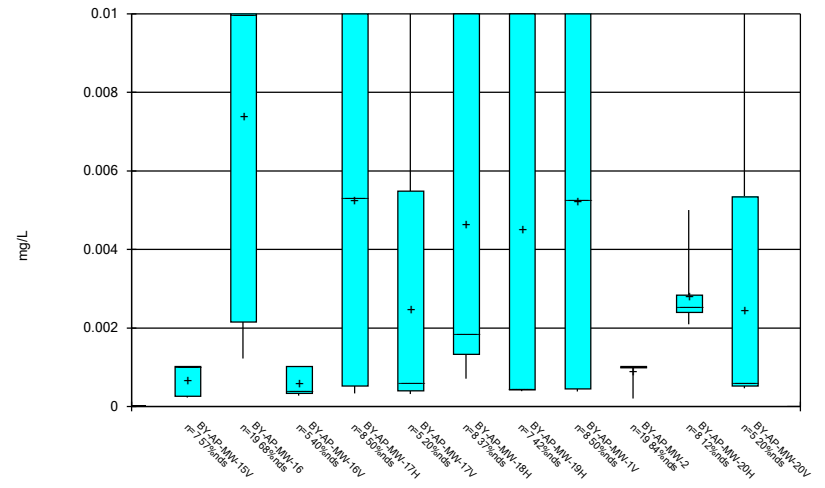
Constituent: Chloride, Total Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



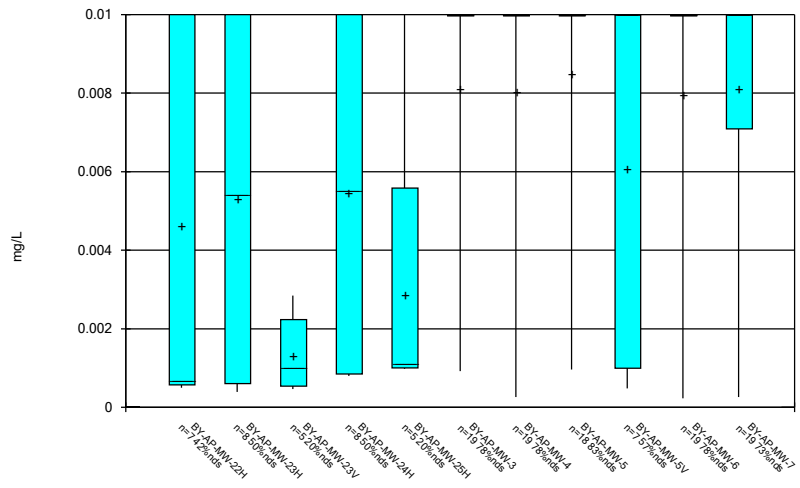
Constituent: Chromium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



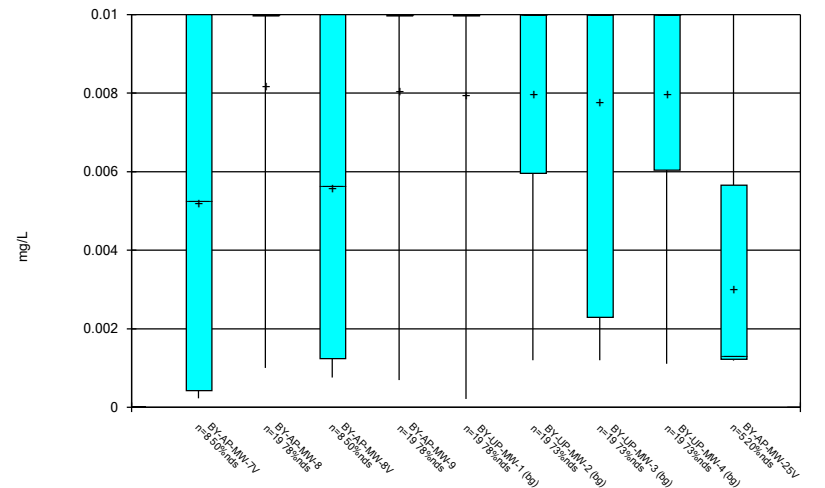
Constituent: Chromium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



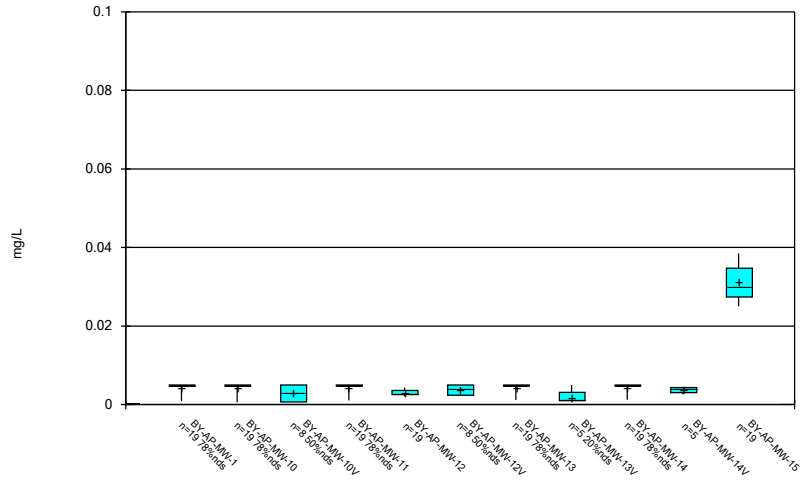
Constituent: Chromium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



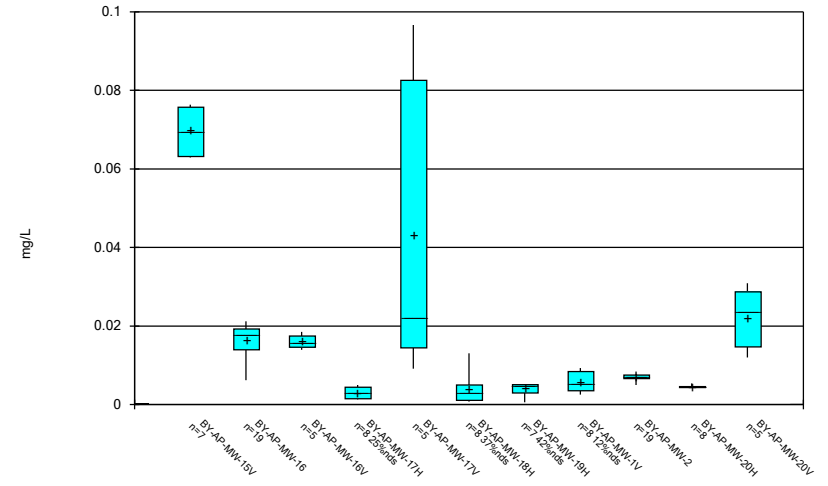
Constituent: Chromium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



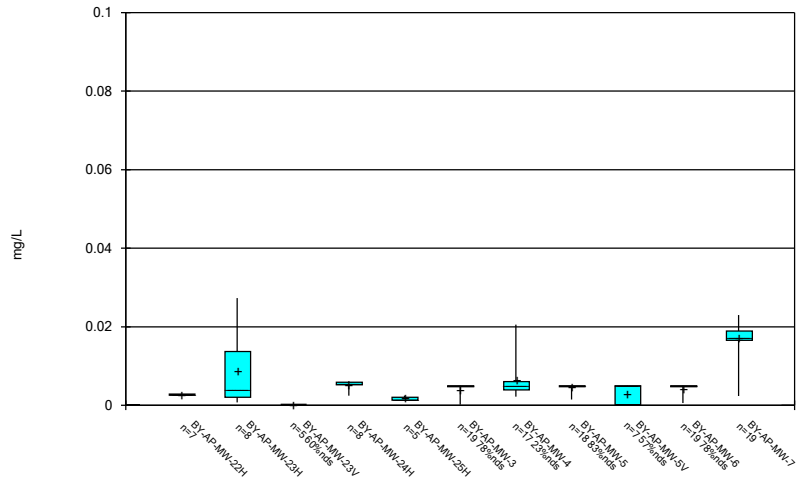
Constituent: Cobalt Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



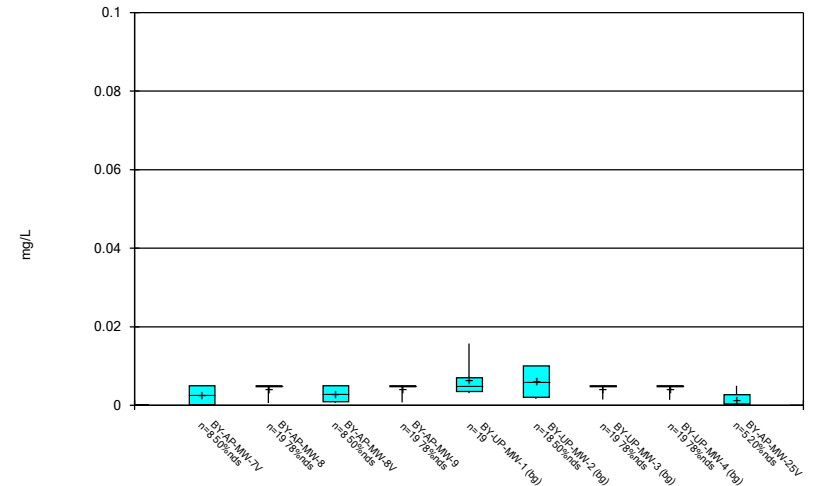
Constituent: Cobalt Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



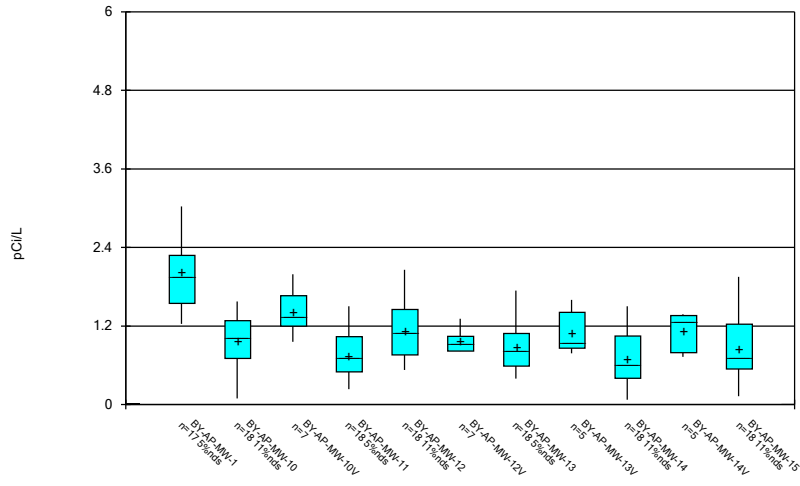
Constituent: Cobalt Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



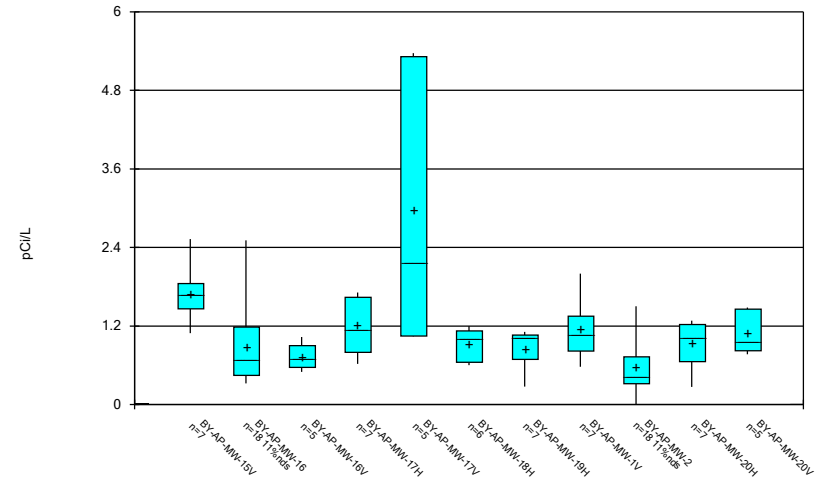
Constituent: Cobalt Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



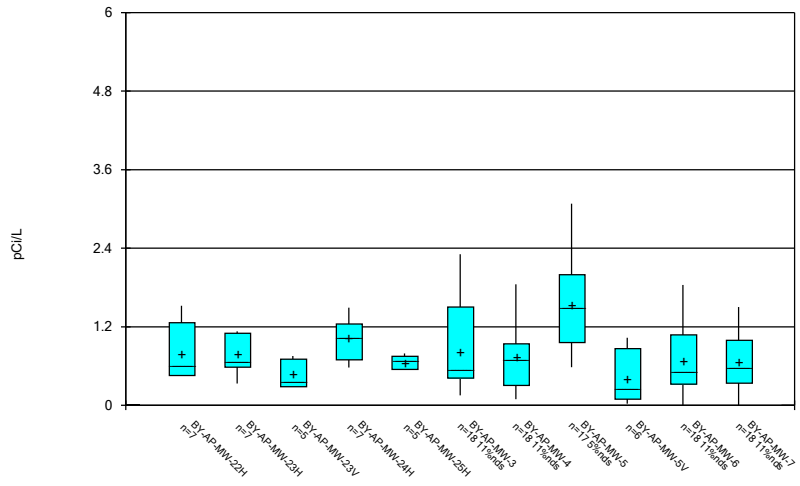
Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



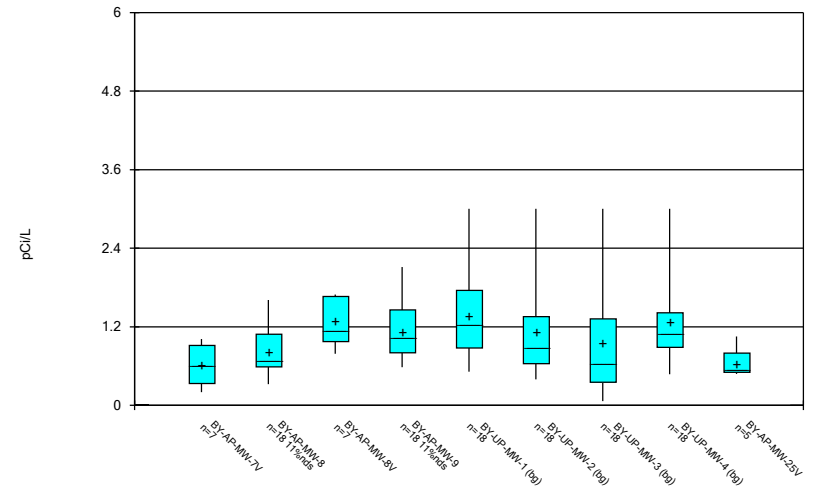
Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



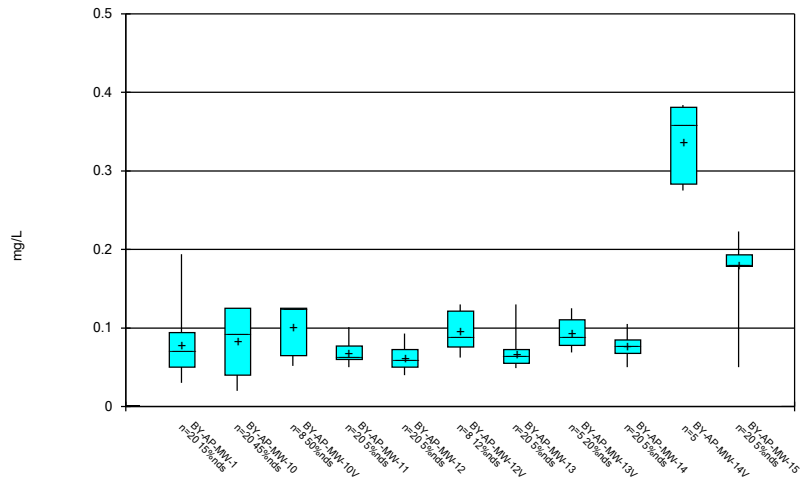
Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



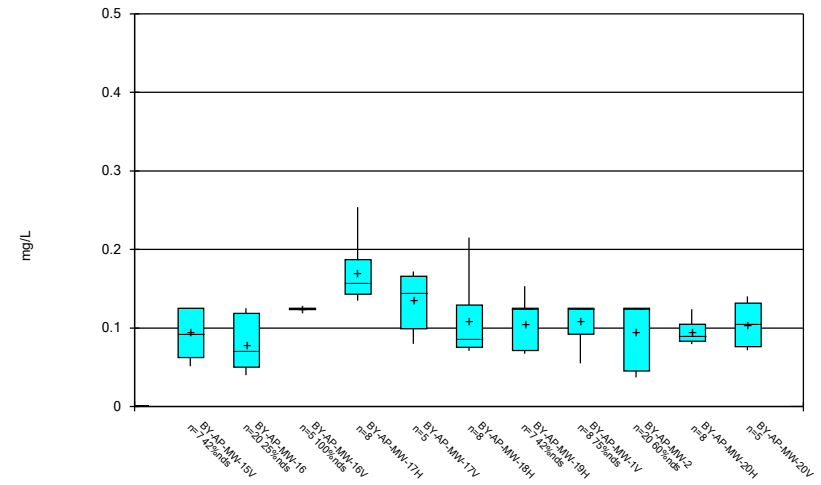
Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



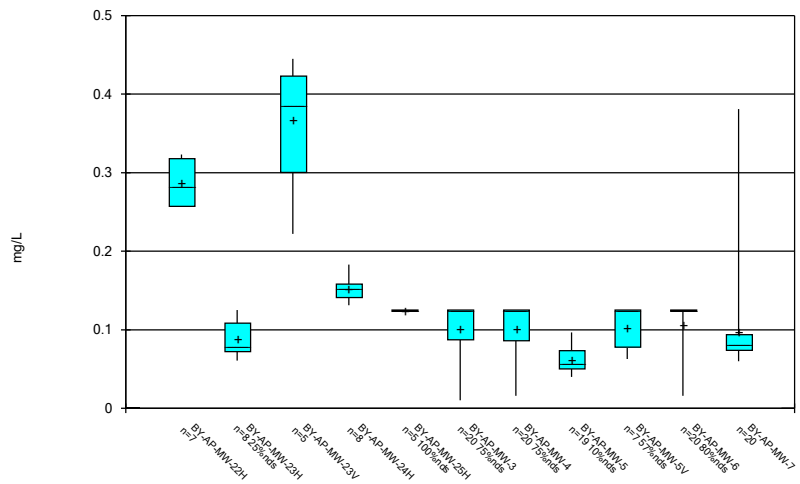
Constituent: Fluoride, total Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



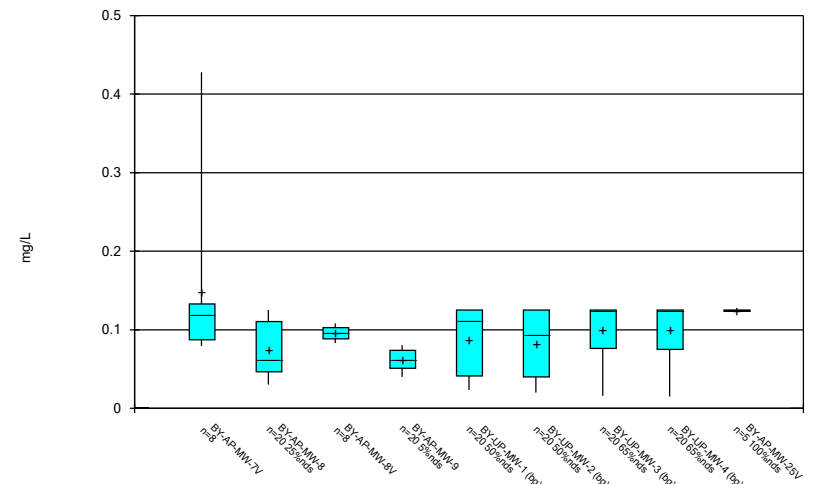
Constituent: Fluoride, total Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



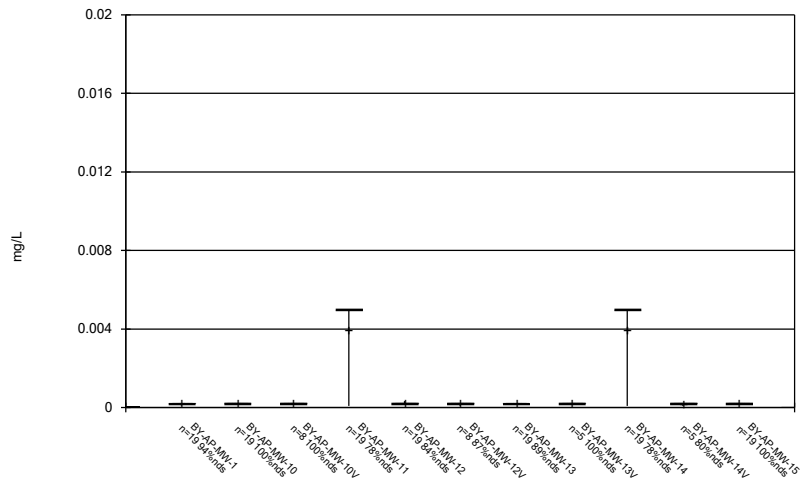
Constituent: Fluoride, total Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



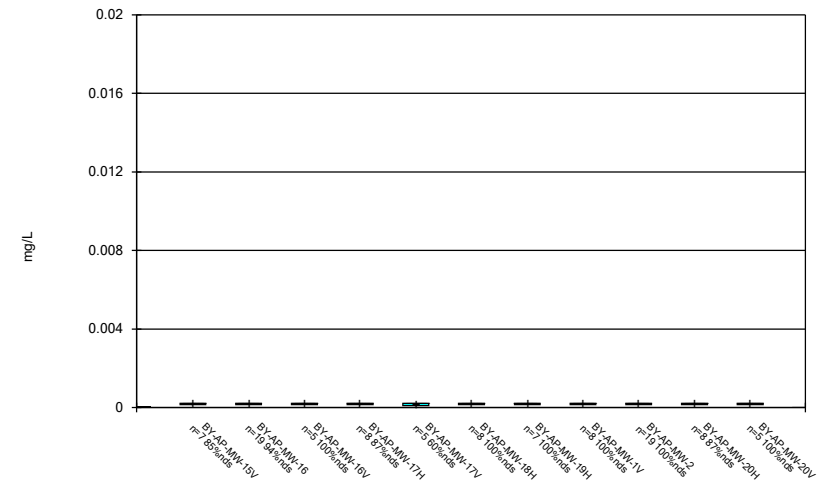
Constituent: Fluoride, total Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



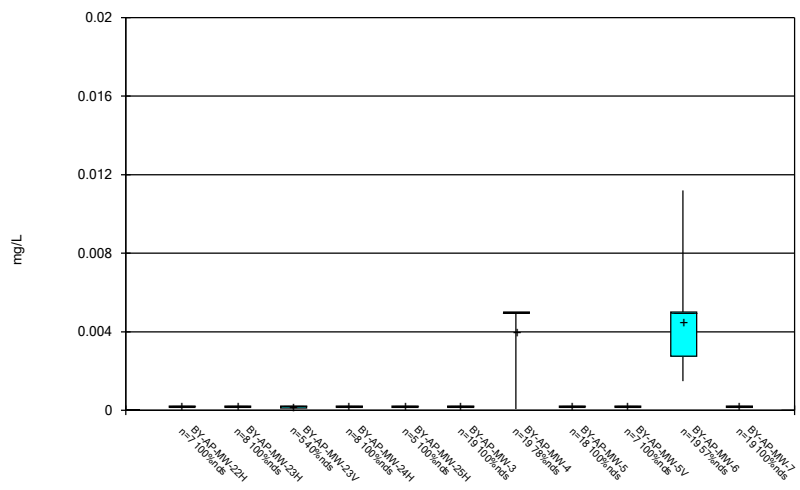
Constituent: Lead Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



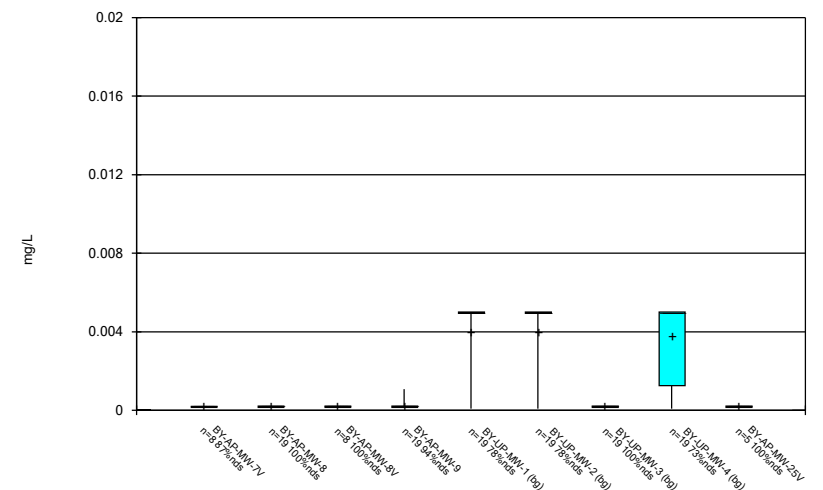
Constituent: Lead Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



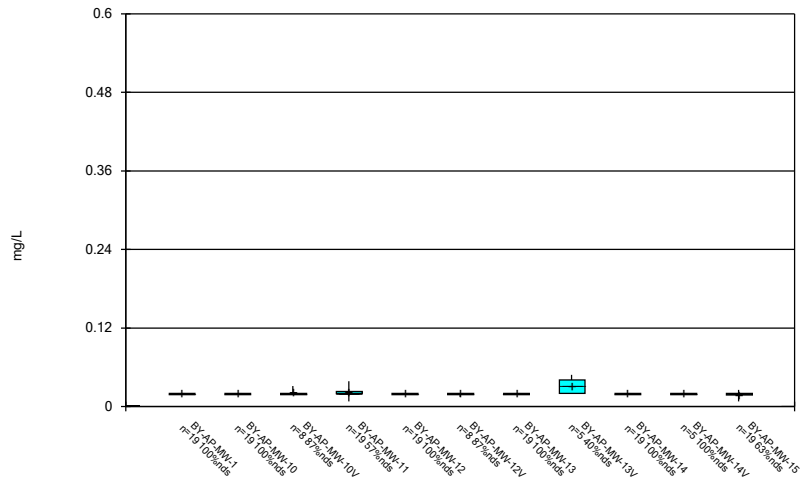
Constituent: Lead Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



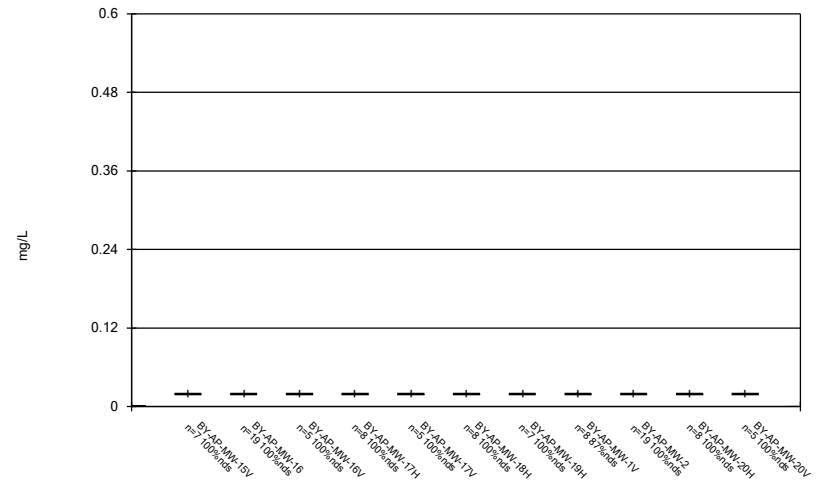
Constituent: Lead Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



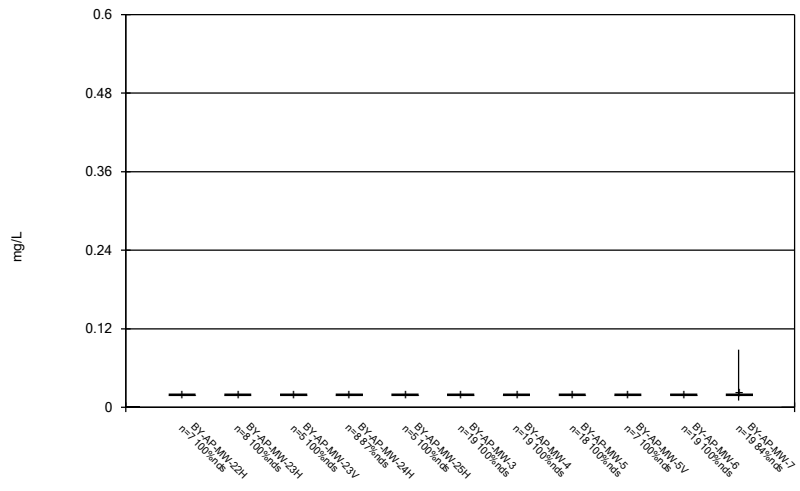
Constituent: Lithium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



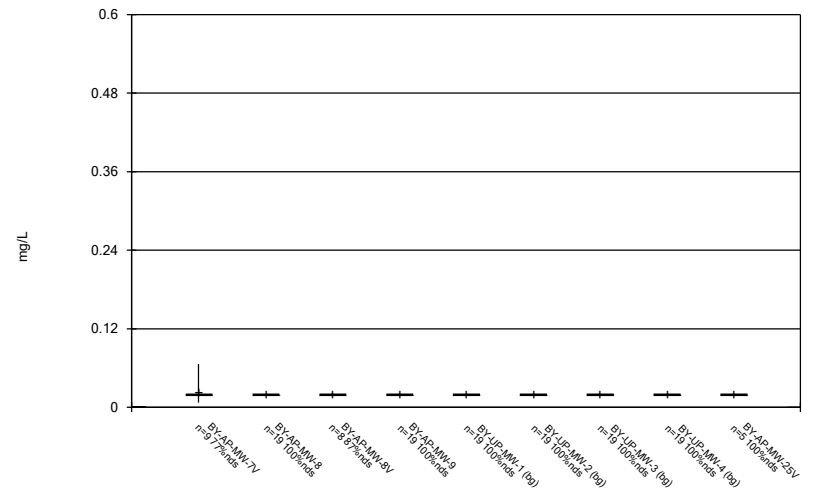
Constituent: Lithium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



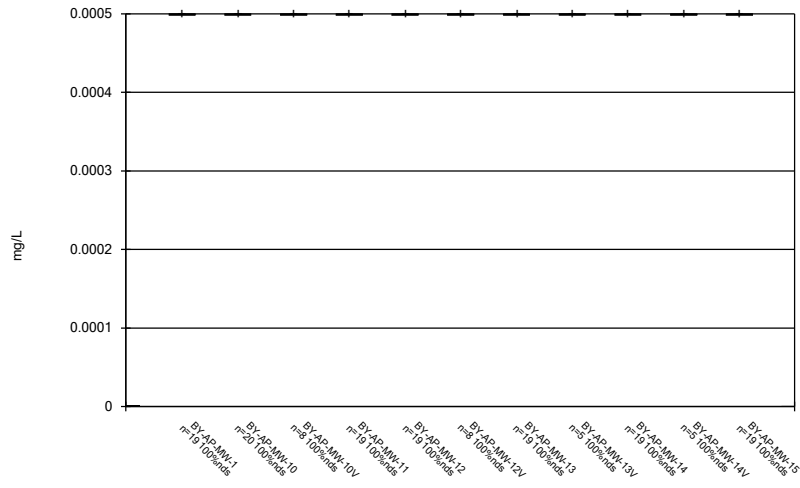
Constituent: Lithium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



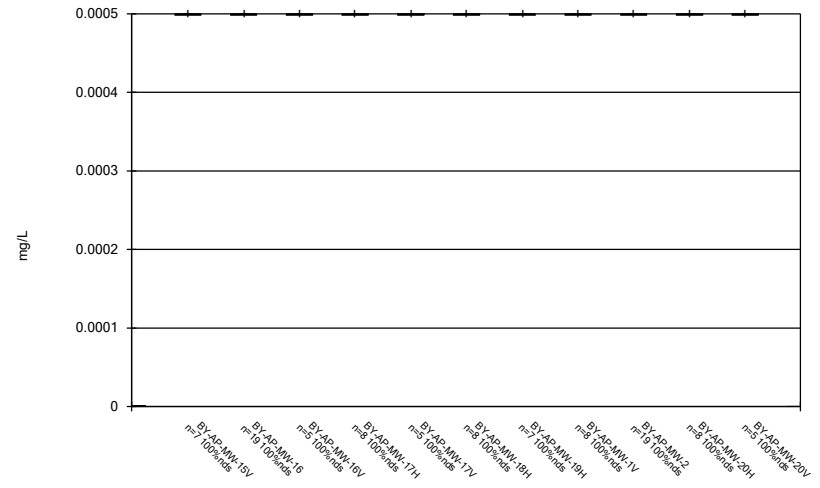
Constituent: Lithium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



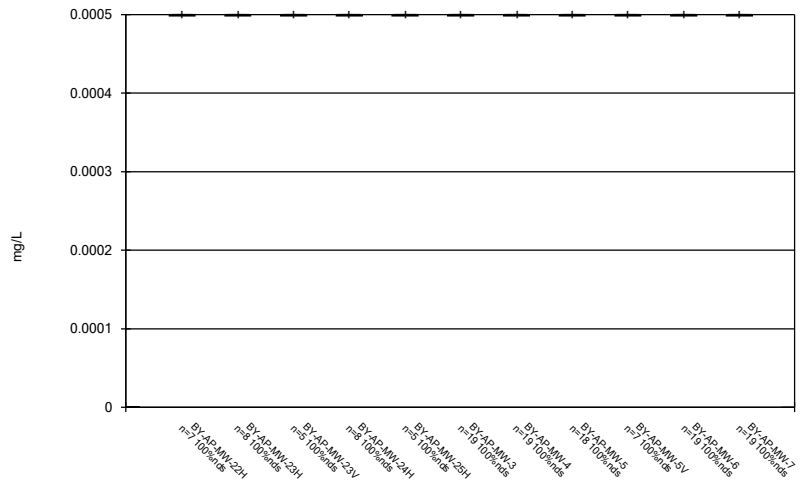
Constituent: Mercury Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



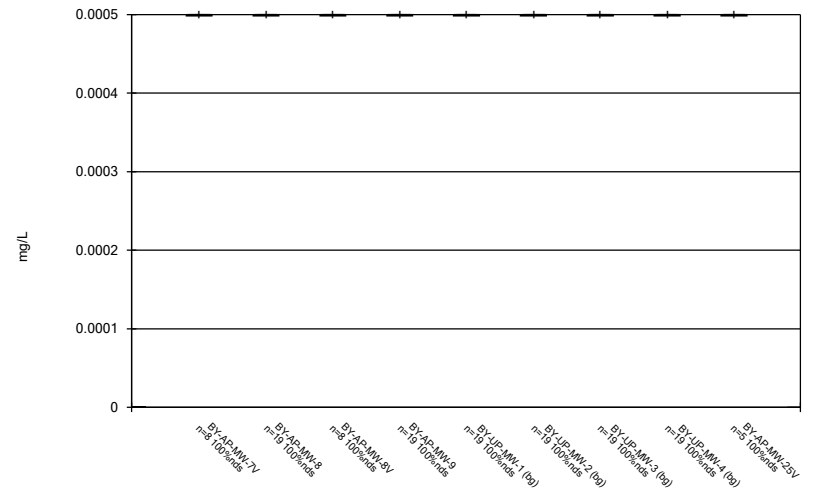
Constituent: Mercury Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



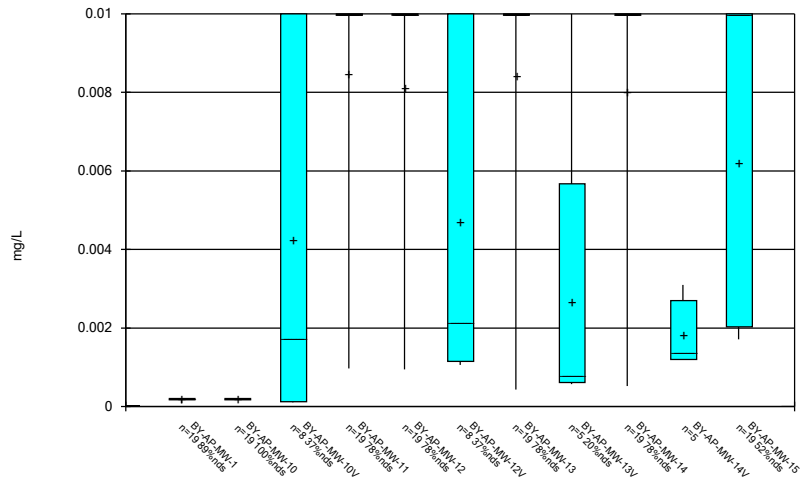
Constituent: Mercury Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



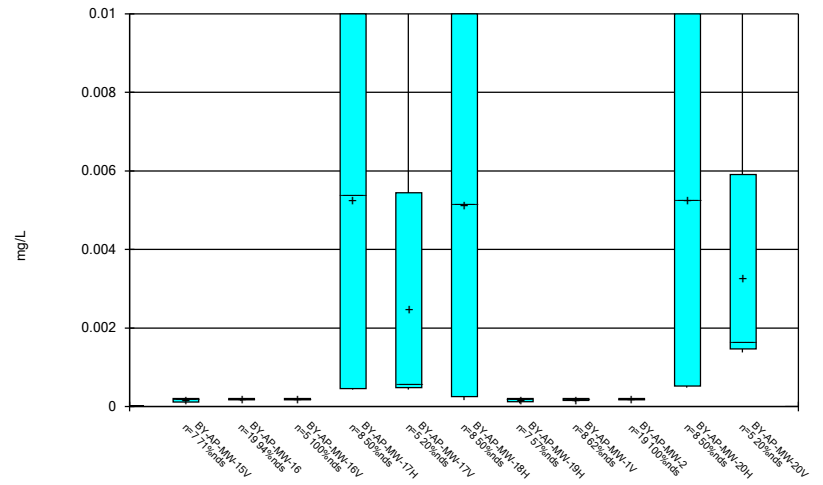
Constituent: Mercury Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



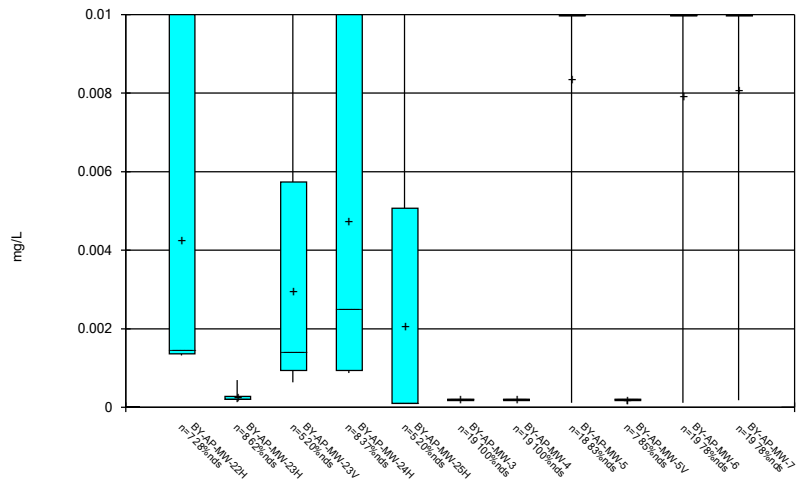
Constituent: Molybdenum Analysis Run 12/28/2022 4:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



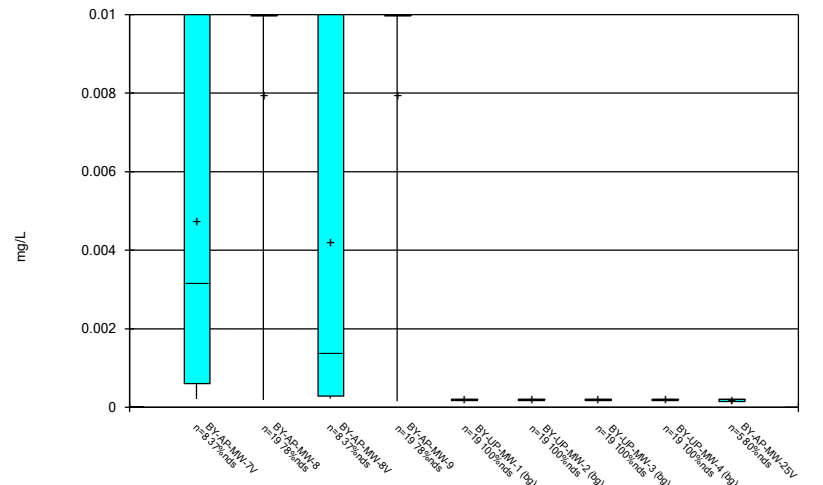
Constituent: Molybdenum Analysis Run 12/28/2022 4:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



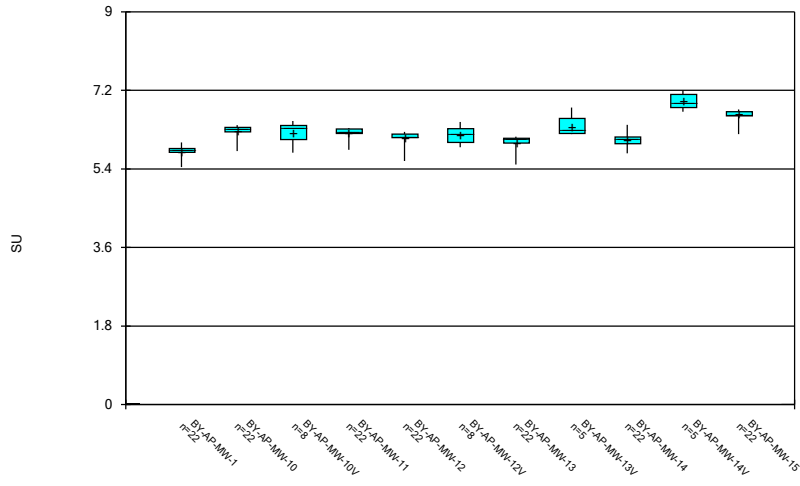
Constituent: Molybdenum Analysis Run 12/28/2022 4:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



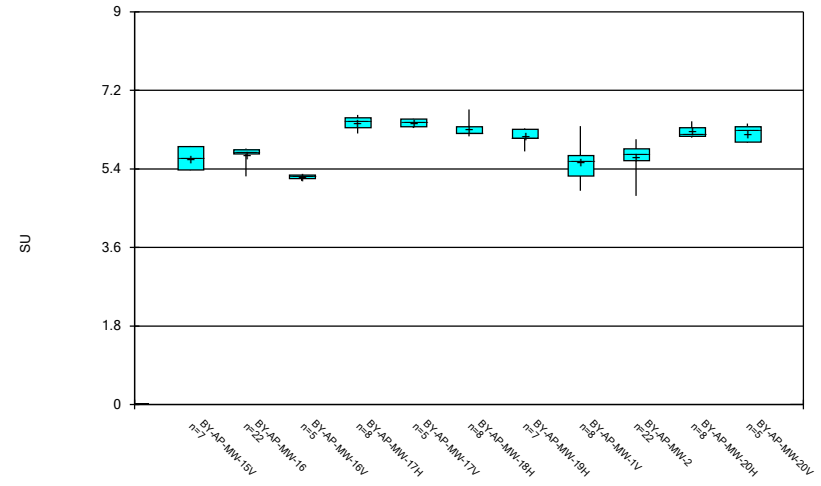
Constituent: Molybdenum Analysis Run 12/28/2022 4:46 PM View: Descriptive
Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



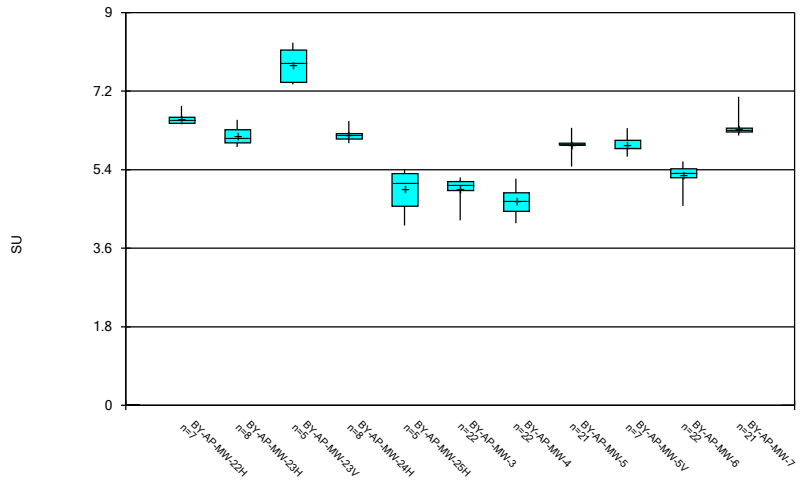
Constituent: pH, field Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



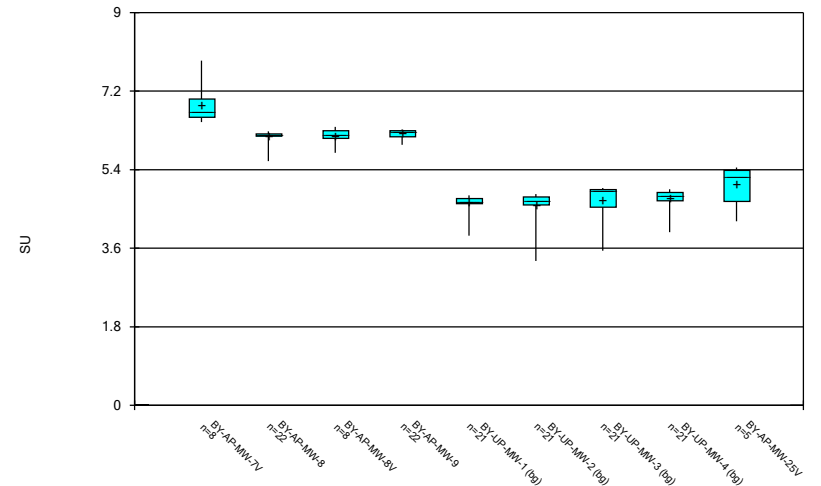
Constituent: pH, field Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



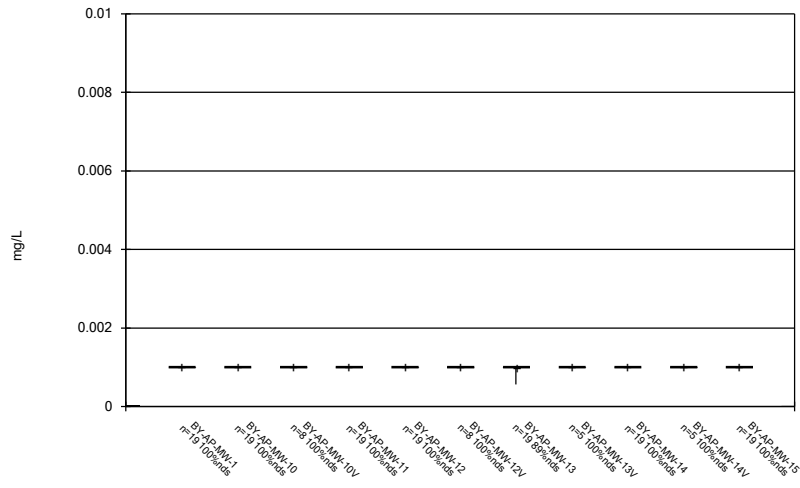
Constituent: pH, field Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



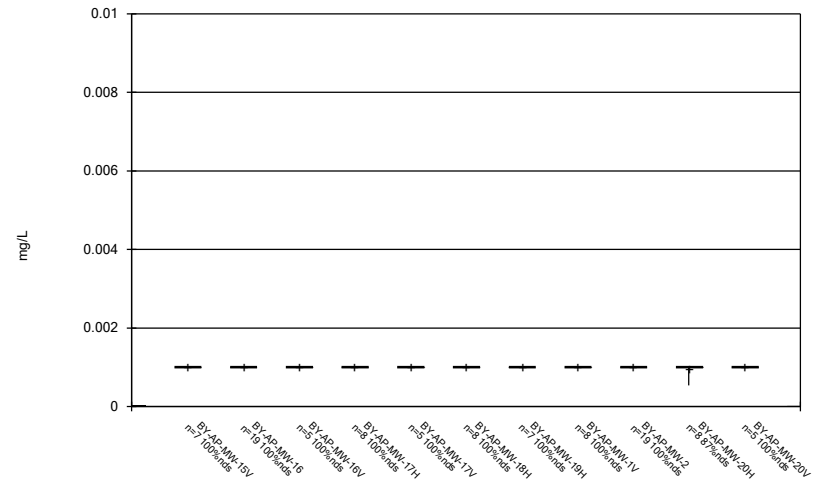
Constituent: pH, field Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



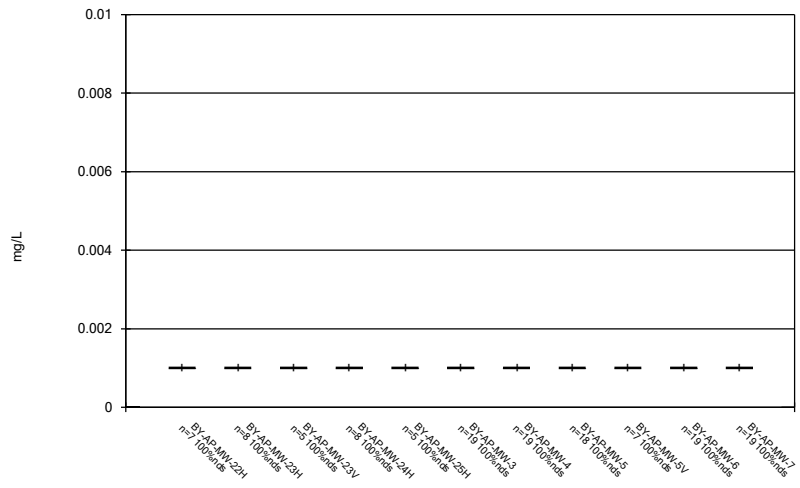
Constituent: Selenium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



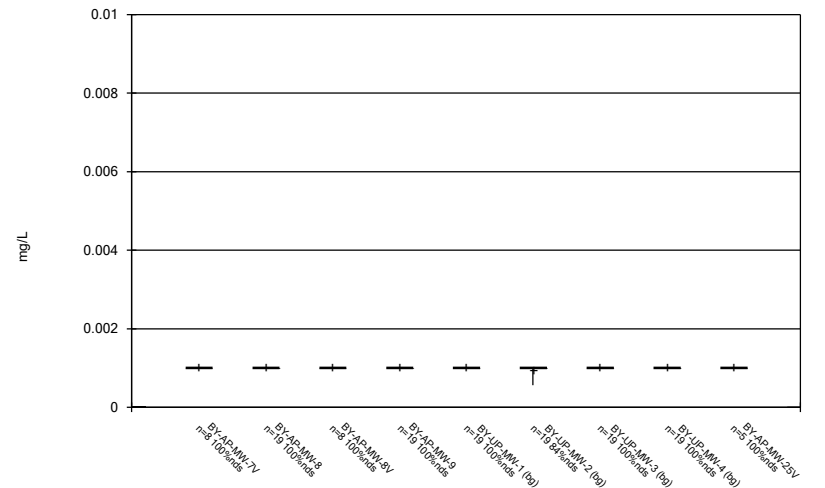
Constituent: Selenium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



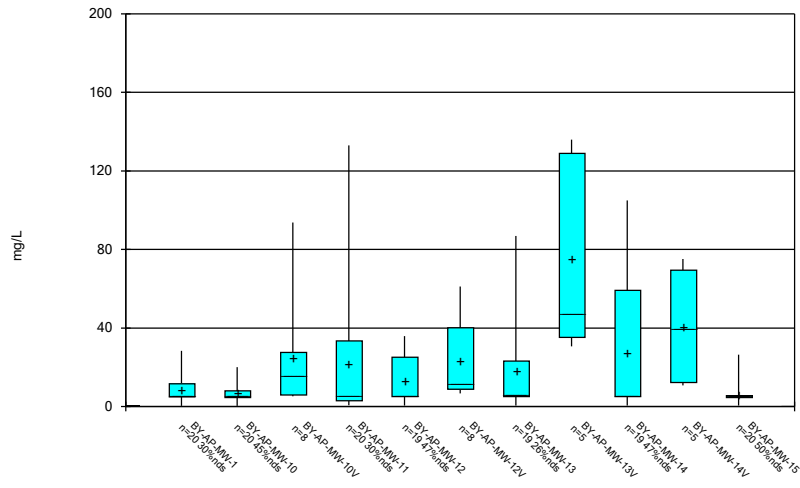
Constituent: Selenium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



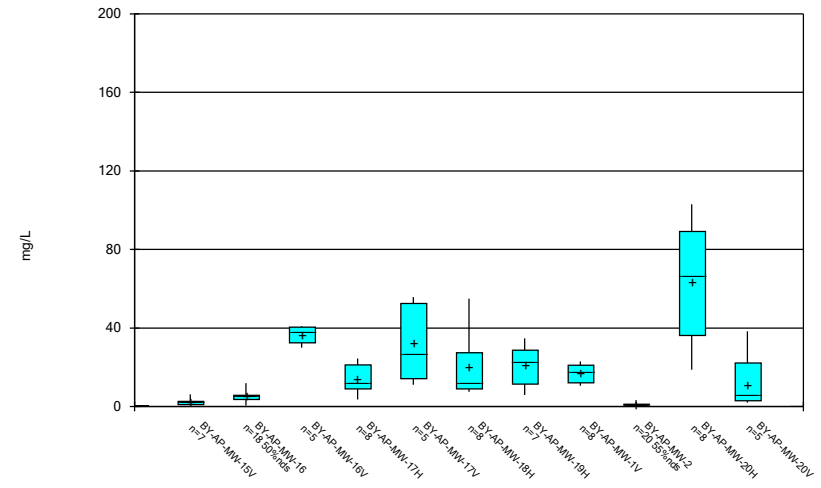
Constituent: Selenium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



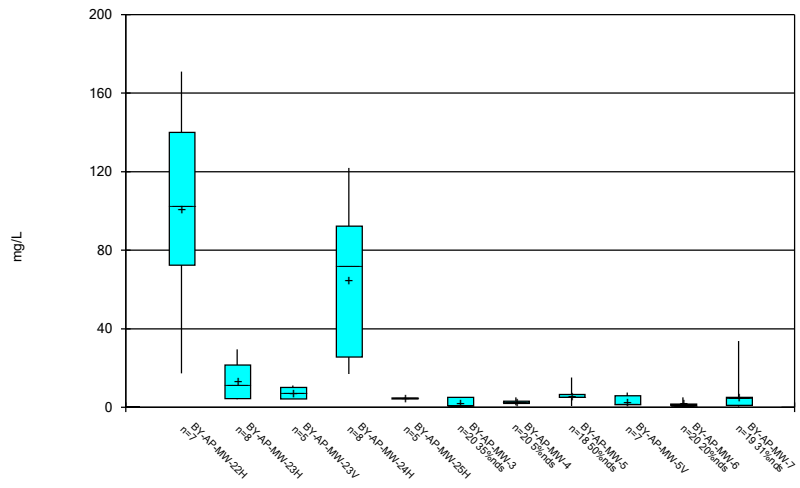
Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



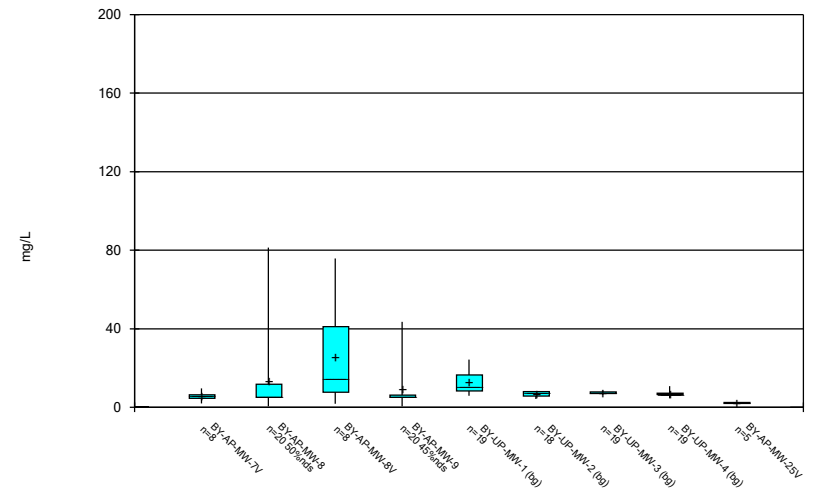
Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



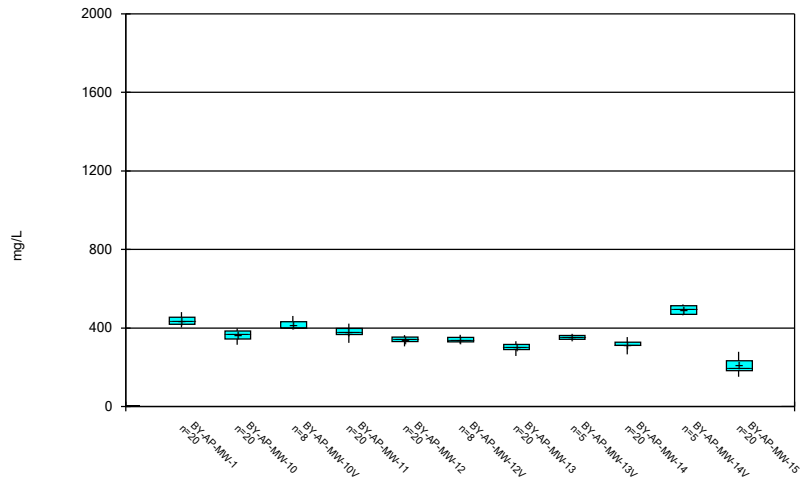
Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



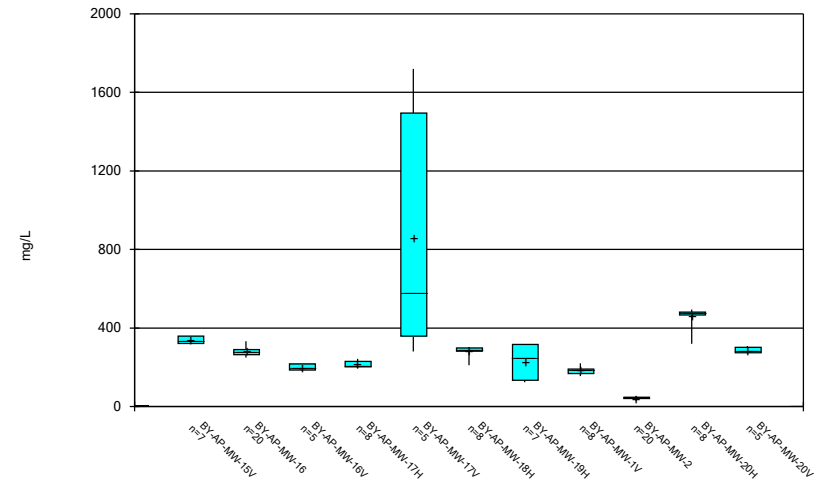
Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



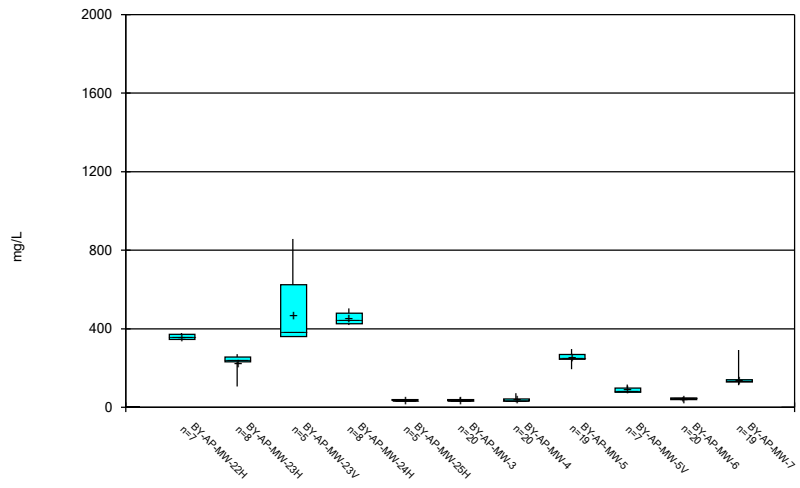
Constituent: TDS Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



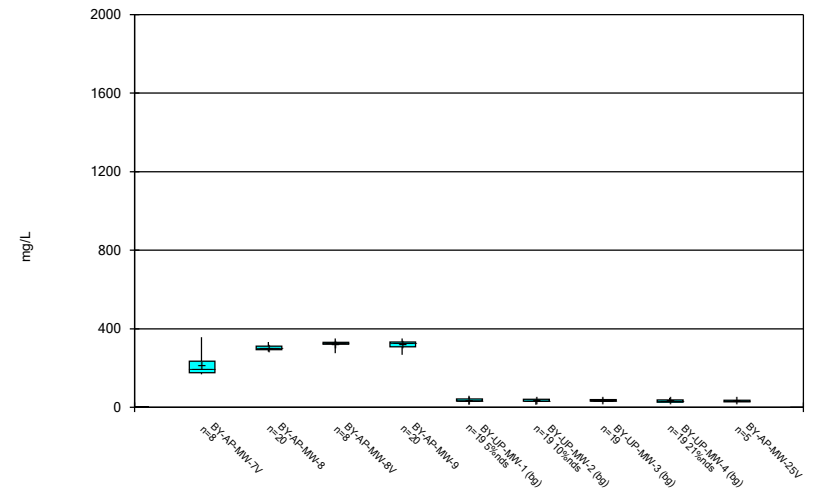
Constituent: TDS Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



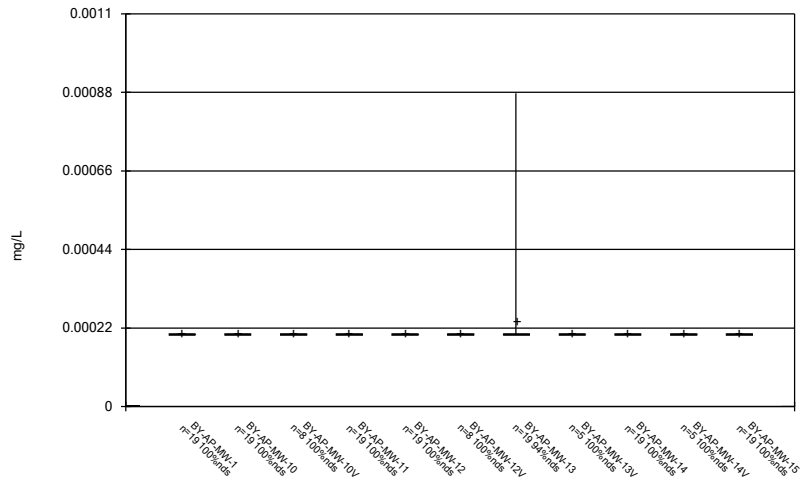
Constituent: TDS Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



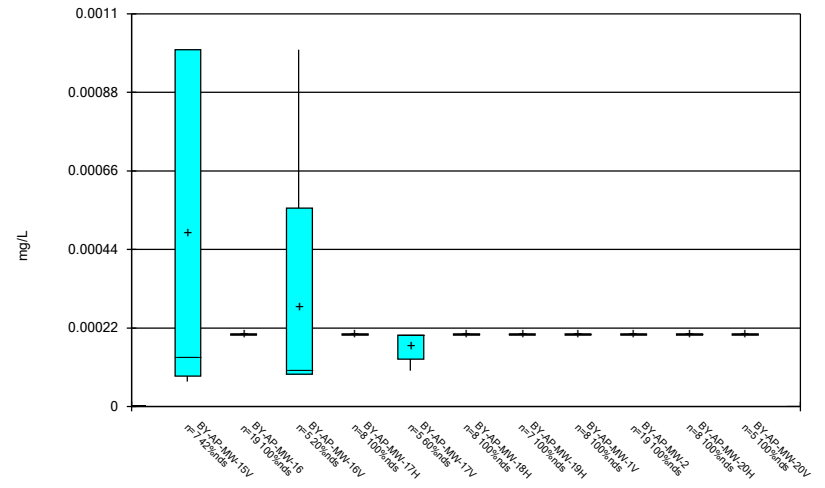
Constituent: TDS Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



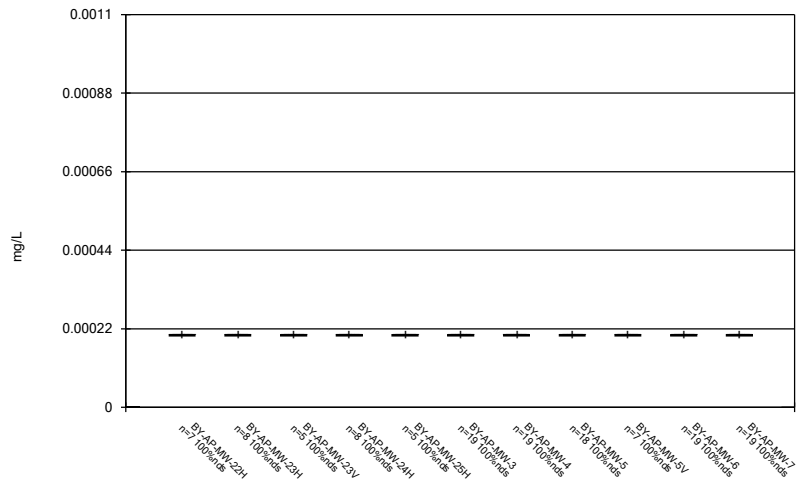
Constituent: Thallium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



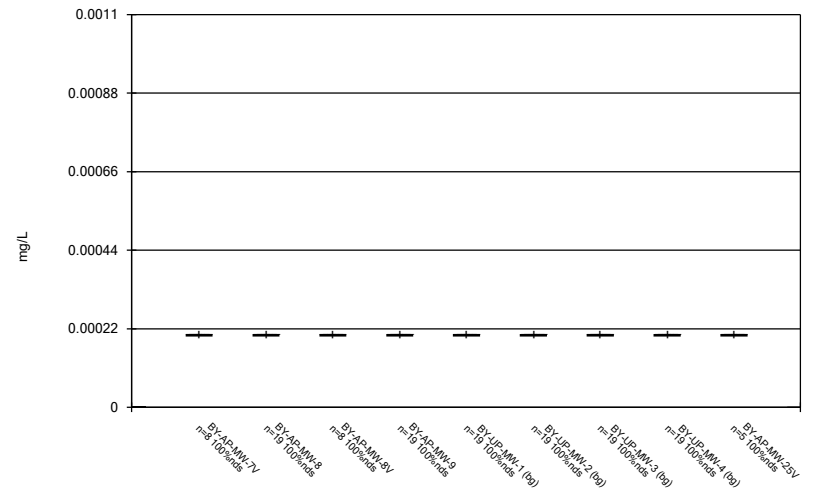
Constituent: Thallium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/28/2022 4:46 PM View: Descriptive
 Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE C.

Outlier Summary

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:25 PM

	BY-AP-MW-1 Chloride, Total (mg/L)	BY-AP-MW-4 Cobalt (mg/L)	BY-AP-MW-12 Sulfate as SO4 (mg/L)	BY-AP-MW-13 Sulfate as SO4 (mg/L)	BY-AP-MW-14 Sulfate as SO4 (mg/L)	BY-AP-MW-16 Sulfate as SO4 (mg/L)	BY-AP-MW-5 Sulfate as SO4 (mg/L)
3/2/2016	2.18 (O)						
4/19/2016	9.01 (O)						
1/31/2017	0.0127 (O)						
5/1/2018	0.0126 (O)						
11/28/2018	<50 (O)						
5/29/2019			49.5 (o)	67.6 (o)			
3/31/2020					17.5 (o)	23.7 (o)	
9/2/2020					13.3 (o)		

FIGURE D.

Intrawell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 4:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-7	6.432	6.166	10/31/2022	7.07	Yes	18	6.299	0.05346	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.26	5.89	11/2/2022	6.28	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-3	4.98	4.4	11/1/2022	4.12	Yes	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-1	6.348	n/a	11/2/2022	12.1	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-10	5	n/a	11/2/2022	10.2	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-11	19.37	n/a	11/1/2022	47.7	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-12	7.04	n/a	11/1/2022	15.3	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-13	9.841	n/a	11/1/2022	86.9	Yes	12	3.818	2.151	41.67	Kaplan-Meier	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-14	61.6	n/a	11/1/2022	86.1	Yes	16	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-16	6.72	n/a	11/1/2022	7.46	Yes	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-5	11	n/a	10/31/2022	15.2	Yes	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-7	5	n/a	10/31/2022	33.8	Yes	16	n/a	n/a	37.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-8	6.01	n/a	11/2/2022	7.58	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-9	5.91	n/a	10/31/2022	11.4	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2

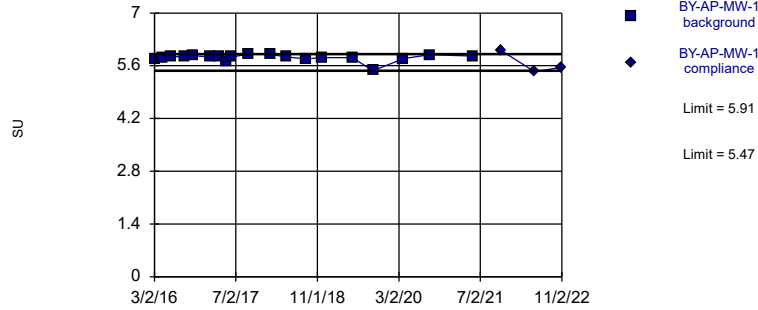
Intrawell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:00 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, field (SU)	BY-AP-MW-1	5.91	5.47	11/2/2022	5.56	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-10	6.463	6.143	11/2/2022	6.39	No	19	6.303	0.06515	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-11	6.34	5.85	11/1/2022	6.28	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-12	6.25	5.58	11/1/2022	6.21	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-13	6.14	5.79	11/1/2022	6.09	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-14	6.14	5.76	11/1/2022	5.93	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-15	6.76	6.2	11/1/2022	6.64	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-16	5.87	5.23	11/1/2022	5.78	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-2	6.2	5.161	11/2/2022	5.68	No	19	1094	156.3	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-3	5.22	4.24	11/1/2022	5.01	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-4	5.355	3.955	10/31/2022	4.65	No	19	4.655	0.2846	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-5	6.03	5.47	10/31/2022	5.99	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-6	5.694	4.846	10/31/2022	4.9	No	19	801.5	101.6	0	None	x^4	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-7	6.432	6.166	10/31/2022	7.07	Yes	18	6.299	0.05346	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-AP-MW-8	6.26	5.89	11/2/2022	6.28	Yes	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-AP-MW-9	6.32	5.97	10/31/2022	6.26	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-1	4.882	4.49	11/1/2022	4.6	No	18	4.686	0.0786	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-2	5.032	4.318	11/1/2022	4.42	No	18	4.675	0.1431	0	None	No	0.0002351	Param Intra 1 of 2
pH, field (SU)	BY-UP-MW-3	4.98	4.4	11/1/2022	4.12	Yes	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH, field (SU)	BY-UP-MW-4	5.082	4.517	11/1/2022	4.74	No	18	4.799	0.1134	0	None	No	0.0002351	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-1	6.348	n/a	11/2/2022	12.1	Yes	13	52.17	74.33	46.15	Kaplan-Meier	x^3	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-10	5	n/a	11/2/2022	10.2	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-11	19.37	n/a	11/1/2022	47.7	Yes	13	1.308	0.5028	46.15	Kaplan-Meier	x^(1/3)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-12	7.04	n/a	11/1/2022	15.3	Yes	12	n/a	n/a	75	n/a	n/a	0.01077	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-13	9.841	n/a	11/1/2022	86.9	Yes	12	3.818	2.151	41.67	Kaplan-Meier	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-14	61.6	n/a	11/1/2022	86.1	Yes	16	n/a	n/a	56.25	n/a	n/a	0.006456	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-15	7.61	n/a	11/1/2022	4.24	No	17	n/a	n/a	58.82	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-16	6.72	n/a	11/1/2022	7.46	Yes	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-2	3.3	n/a	11/2/2022	1.17J	No	17	n/a	n/a	64.71	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-3	5	n/a	11/1/2022	1.66J	No	17	n/a	n/a	41.18	n/a	n/a	0.005914	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-4	5.286	n/a	10/31/2022	1.02J	No	17	2.731	1.012	5.882	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-5	11	n/a	10/31/2022	15.2	Yes	15	n/a	n/a	60	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-6	3.037	n/a	10/31/2022	1.22J	No	17	0.01145	0.4356	23.53	Kaplan-Meier	ln(x)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-7	5	n/a	10/31/2022	33.8	Yes	16	n/a	n/a	37.5	n/a	n/a	0.006456	NP Intra (normality) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-8	6.01	n/a	11/2/2022	7.58	Yes	13	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-AP-MW-9	5.91	n/a	10/31/2022	11.4	Yes	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-1	31.7	n/a	11/1/2022	11.3	No	16	3.458	0.85	0	None	sqrt(x)	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-2	9.774	n/a	11/1/2022	7.11	No	15	6.454	1.269	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-3	9.087	n/a	11/1/2022	6.83	No	16	7.496	0.6224	0	None	No	0.0004702	Param Intra 1 of 2
Sulfate as SO4 (mg/L)	BY-UP-MW-4	10.8	n/a	11/1/2022	4.59	No	16	n/a	n/a	0	n/a	n/a	0.006456	NP Intra (normality) 1 of 2

Within Limits

Prediction Limit Intrawell Non-parametric

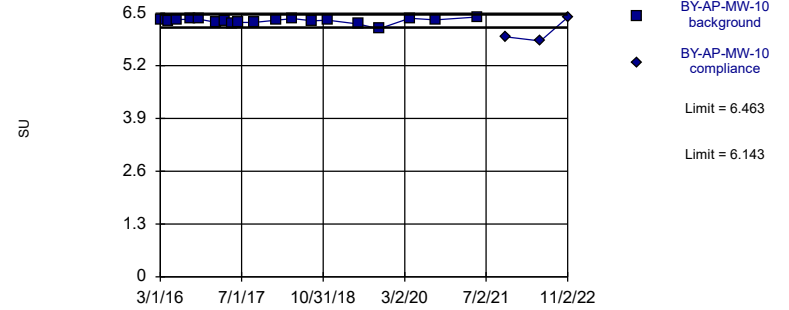


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:54 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

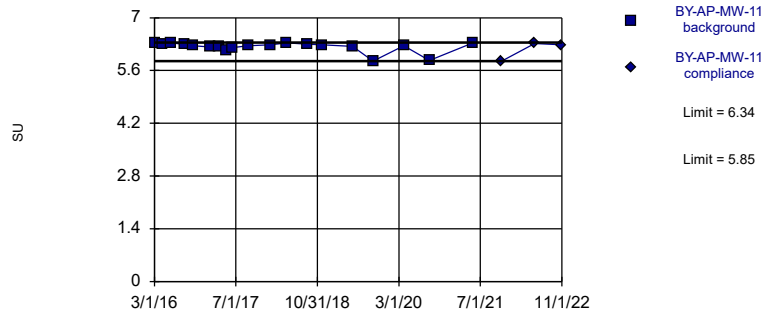


Background Data Summary: Mean=6.303, Std. Dev.=0.06515, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8965, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 12/28/2022 4:54 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

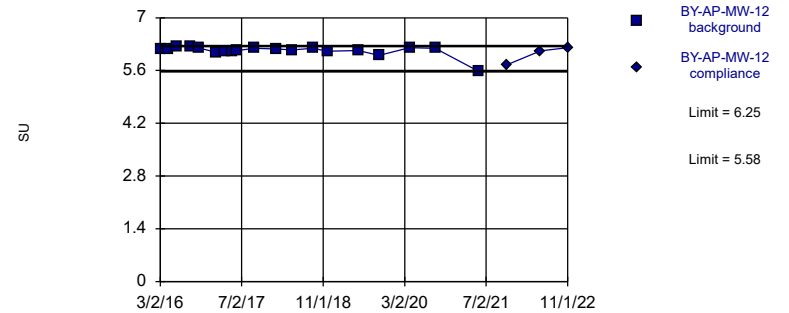


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:54 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

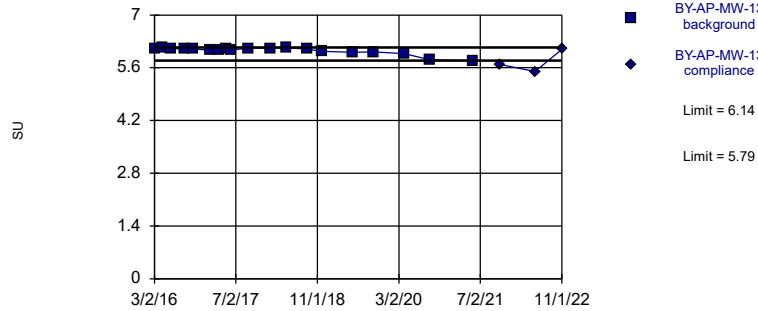


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

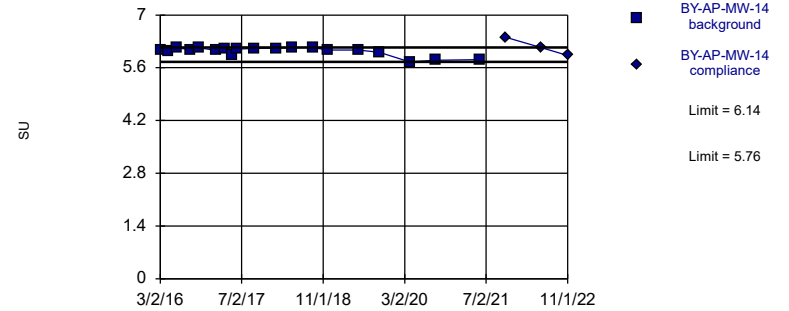


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

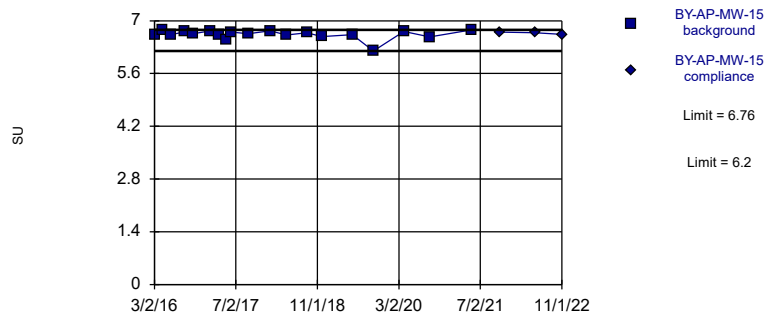


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

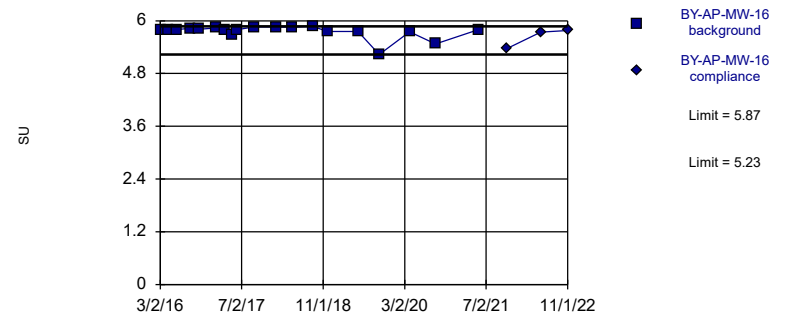


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

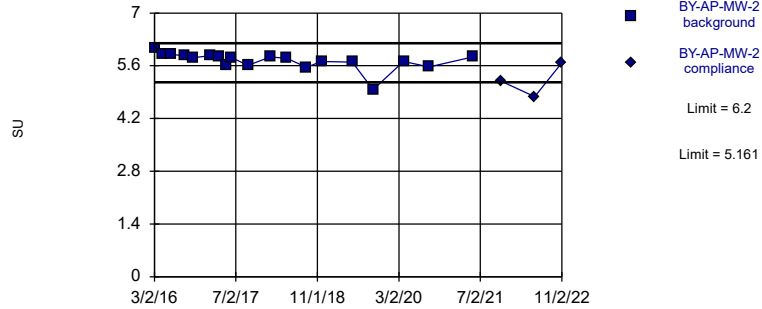


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

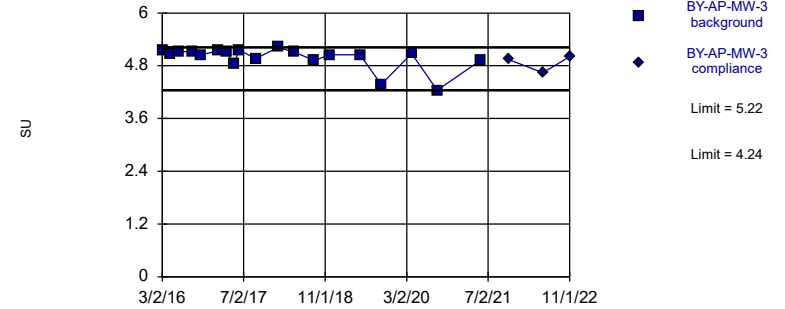


Background Data Summary (based on x^4 transformation): Mean=1094, Std. Dev.=156.3, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8685, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

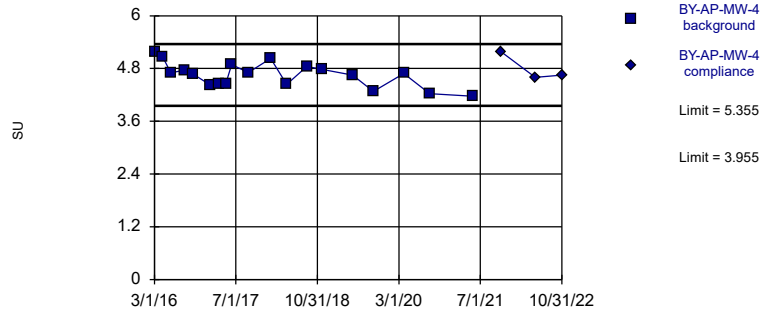


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

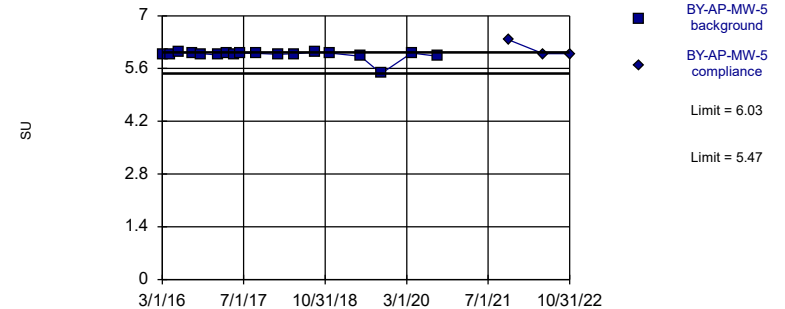


Background Data Summary: Mean=4.655, Std. Dev.=0.2846, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.972, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Non-parametric

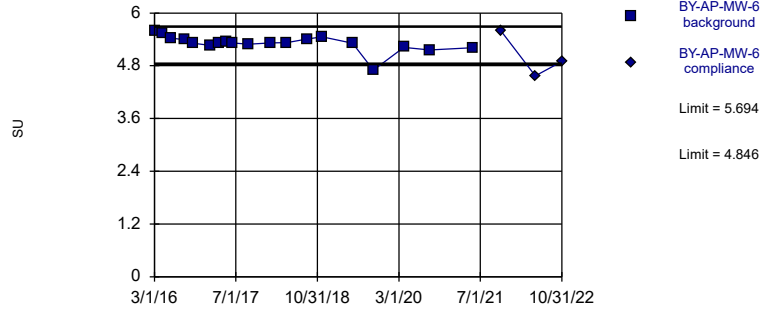


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Parametric

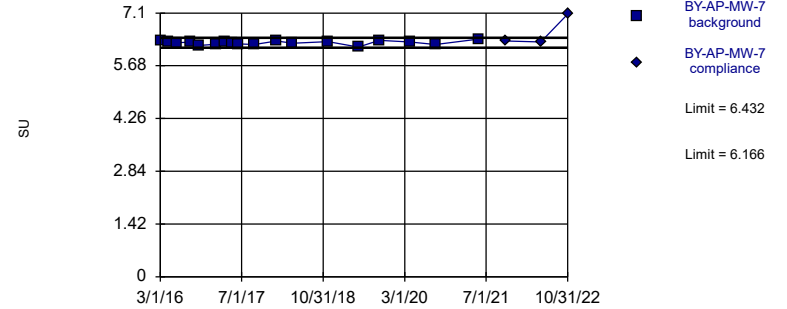


Background Data Summary (based on x^4 transformation): Mean=801.5, Std. Dev.=101.6, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8738, critical = 0.863. Kappa = 2.46 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Parametric

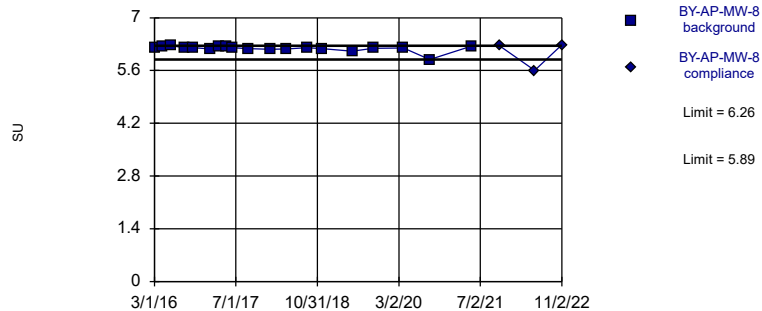


Background Data Summary: Mean=6.299, Std. Dev.=0.05346, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9863, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit
Intrawell Non-parametric

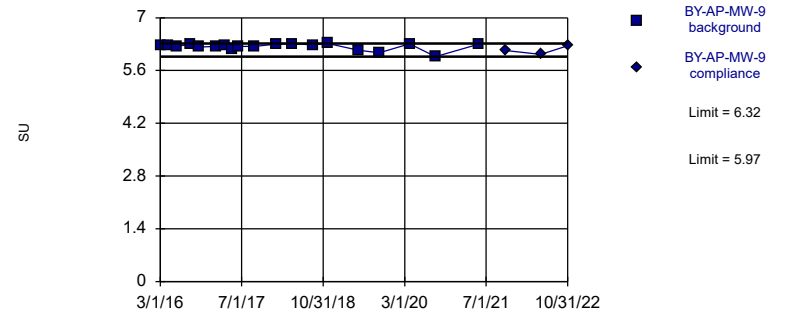


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit
Intrawell Non-parametric

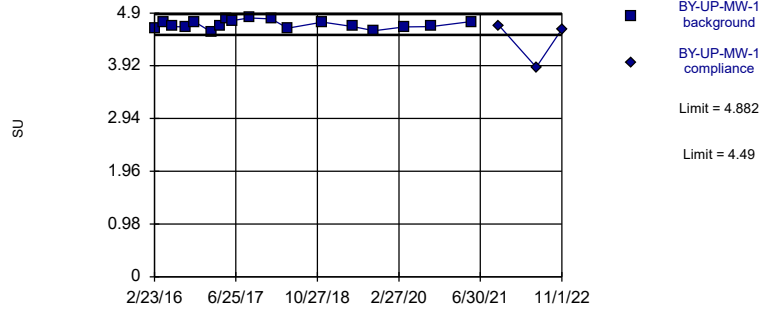


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

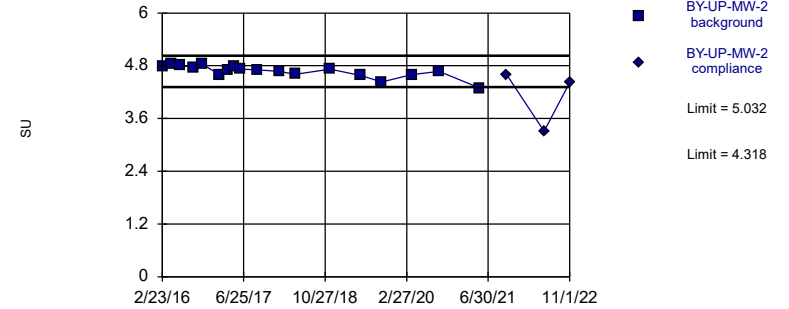


Background Data Summary: Mean=4.686, Std. Dev.=0.0786, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9444, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

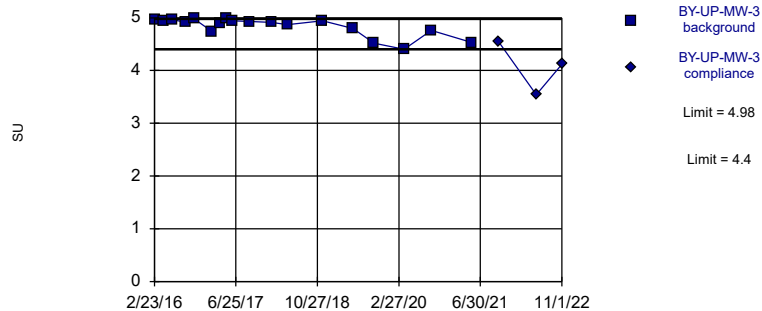


Background Data Summary: Mean=4.675, Std. Dev.=0.1431, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8886, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limits

Prediction Limit Intrawell Non-parametric

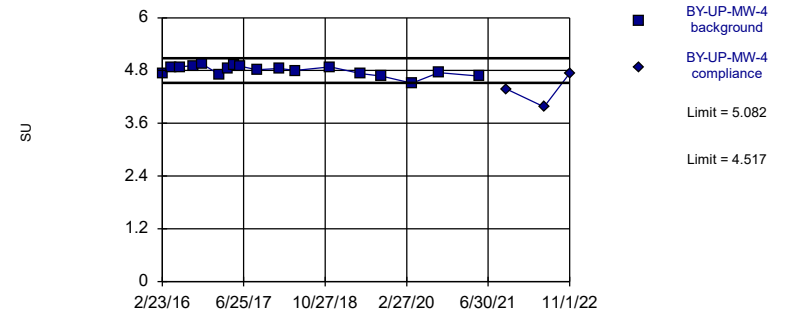


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limits

Prediction Limit Intrawell Parametric

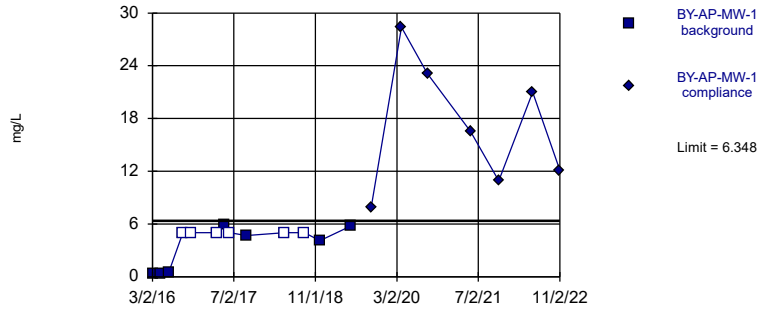


Background Data Summary: Mean=4.799, Std. Dev.=0.1134, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9332, critical = 0.858. Kappa = 2.492 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: pH, field Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Parametric

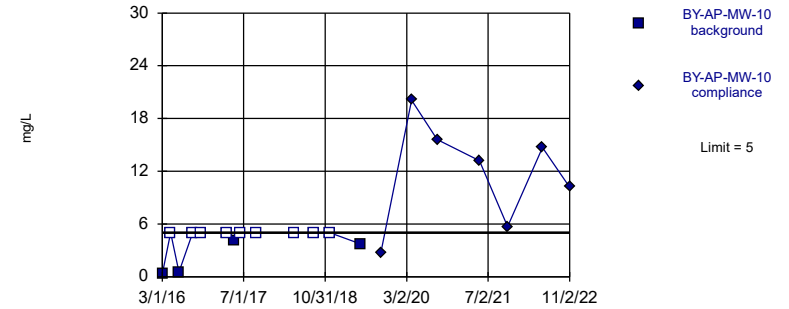


Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=52.17, Std. Dev.=74.33, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8687, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric

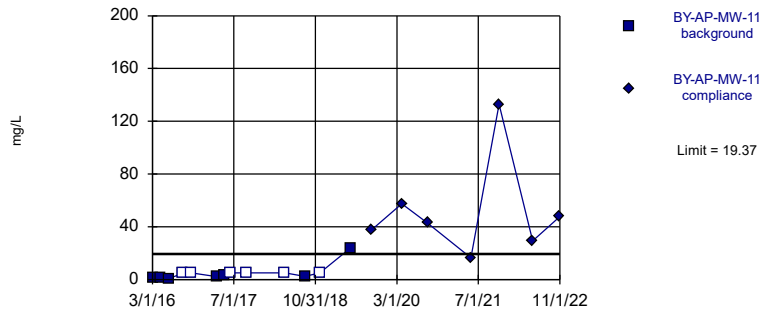


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Parametric

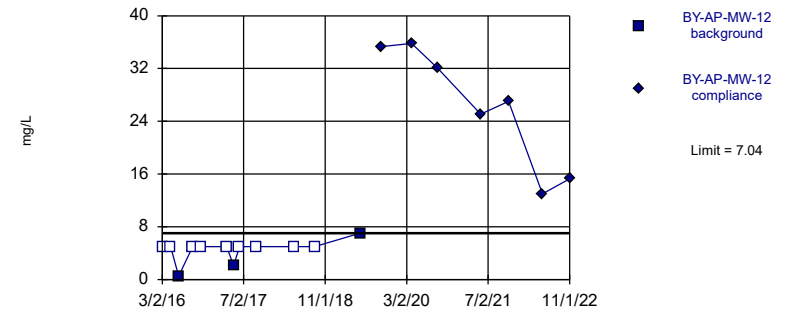


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=1.308, Std. Dev.=0.5028, n=13, 46.15% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8281, critical = 0.814. Kappa = 2.739 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
Hollow symbols indicate censored values.
Exceeds Limit

Prediction Limit
Intrawell Non-parametric

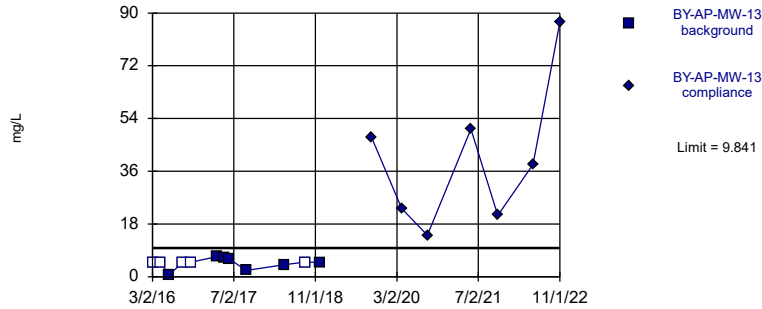


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01077 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Parametric

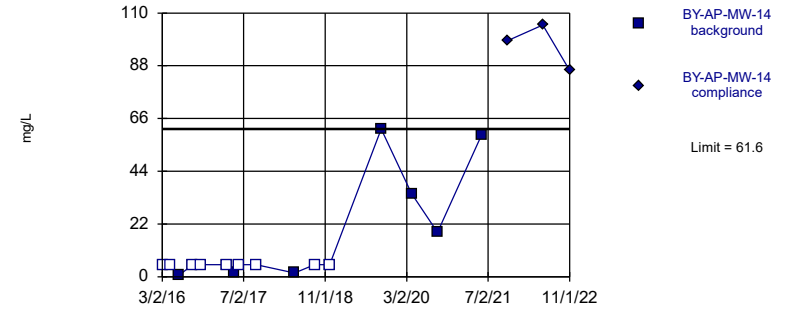


Background Data Summary (after Kaplan-Meier Adjustment): Mean=3.818, Std. Dev.=2.151, n=12, 41.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8449, critical = 0.805. Kappa = 2.8 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

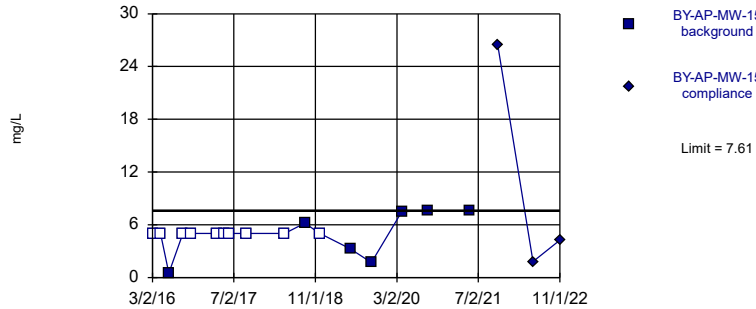


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 16 background values. 56.25% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
 Hollow symbols indicate censored values.
 Within Limit

Prediction Limit
 Intrawell Non-parametric

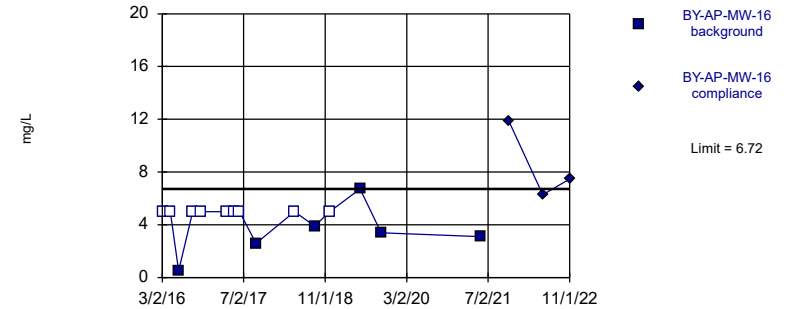


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 58.82% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
 Hollow symbols indicate censored values.
 Exceeds Limit

Prediction Limit
 Intrawell Non-parametric



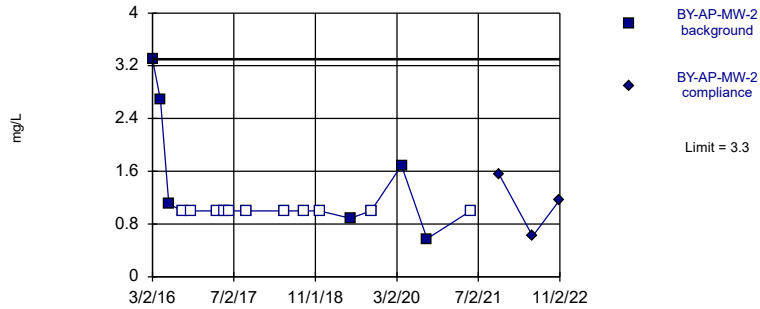
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit

Intrawell Non-parametric



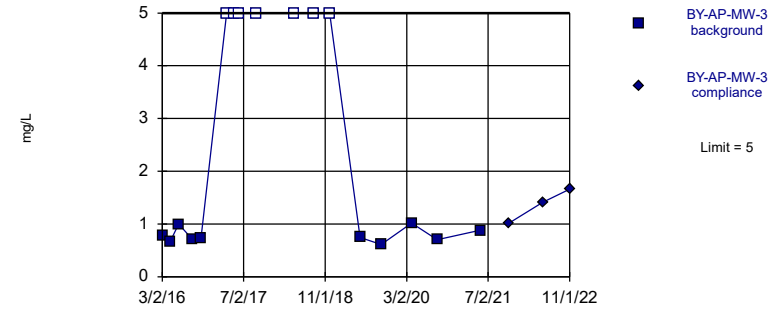
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 64.71% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit

Intrawell Non-parametric



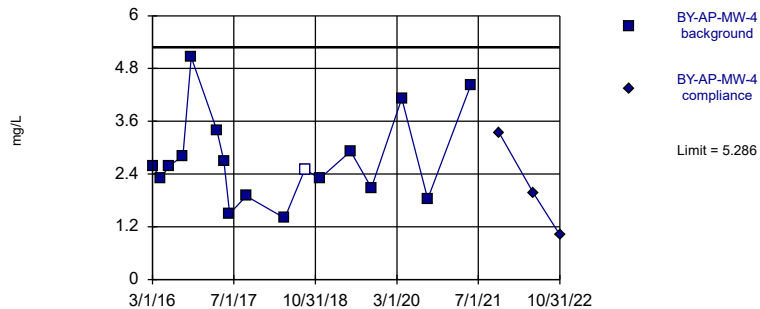
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 17 background values. 41.18% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit

Intrawell Parametric



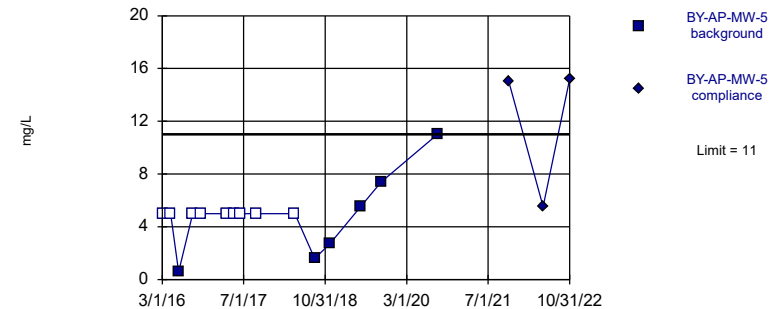
Background Data Summary: Mean=2.731, Std. Dev.=1.012, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9141, critical = 0.851. Kappa = 2.524 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



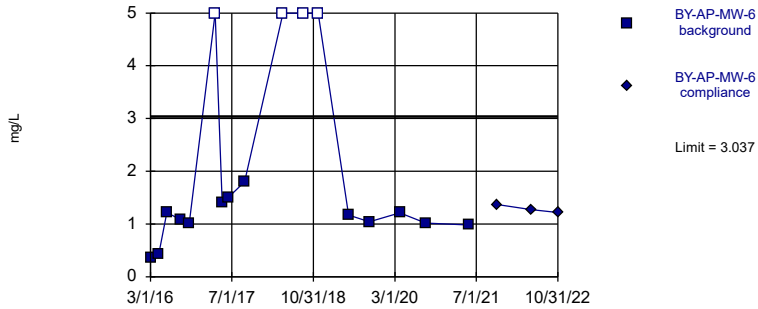
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 60% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



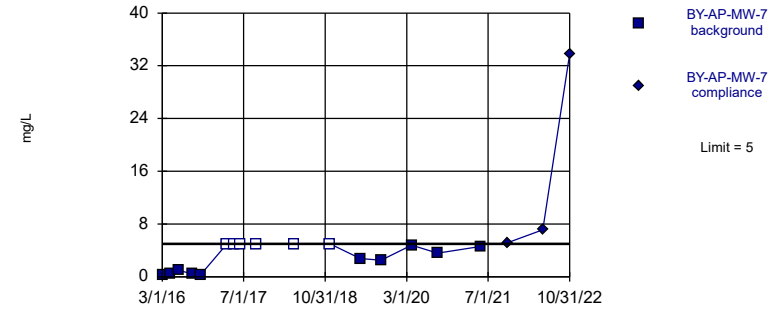
Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=0.01145, Std. Dev.=0.4356, n=17, 23.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8672, critical = 0.851. Kappa = 2.524 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit
Intrawell Non-parametric



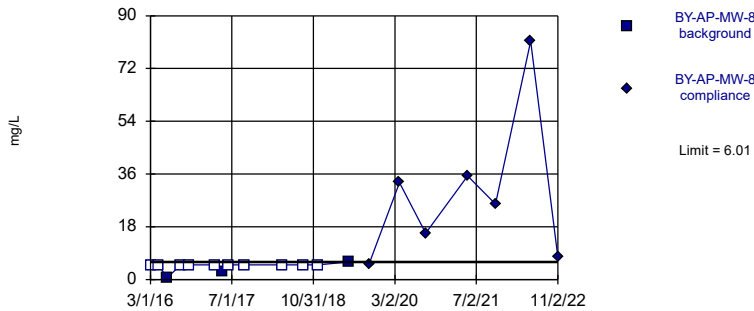
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. 37.5% NDs. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit
Intrawell Non-parametric



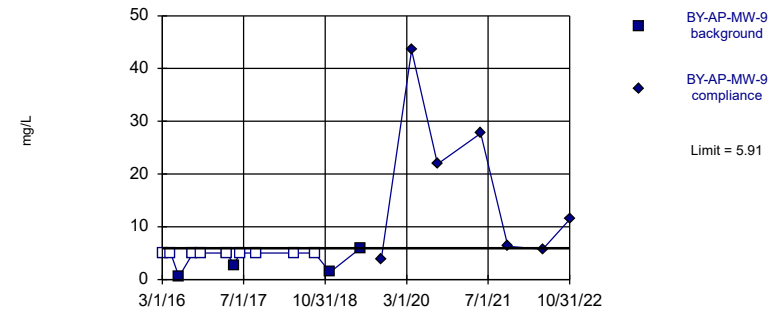
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sanitas™ v.9.6.36 . UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

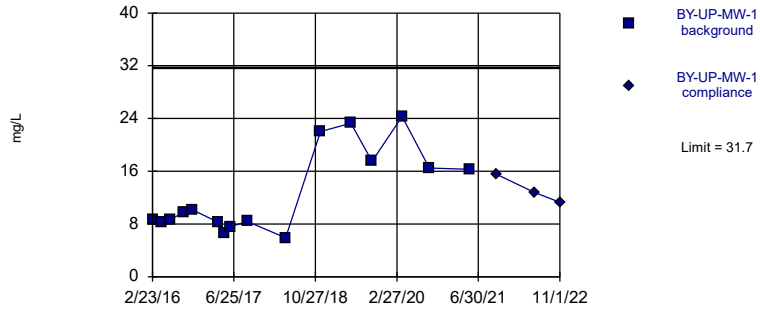


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Parametric

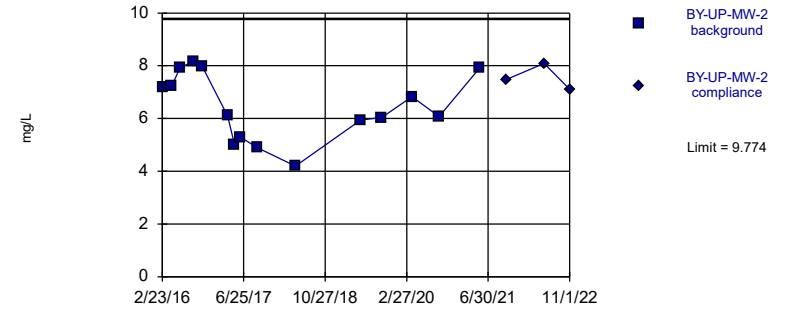


Background Data Summary (based on square root transformation): Mean=3.458, Std. Dev.=0.85, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8598, critical = 0.844. Kappa = 2.556 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Parametric

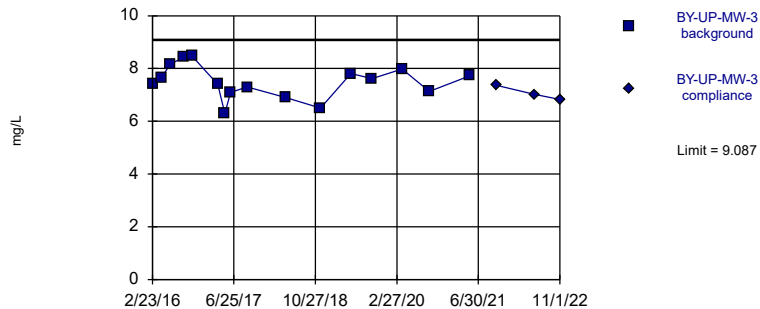


Background Data Summary: Mean=6.454, Std. Dev.=1.269, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.937, critical = 0.835. Kappa = 2.617 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Parametric

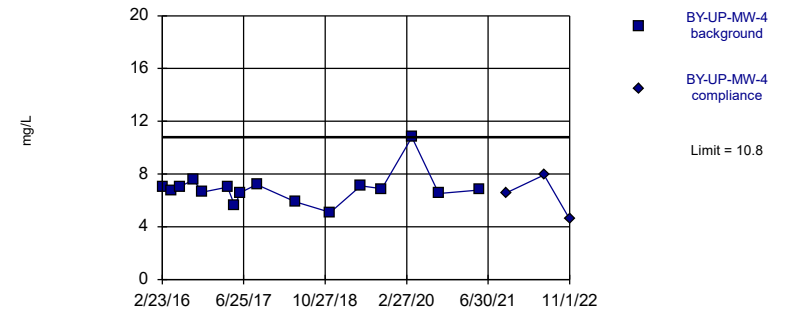


Background Data Summary: Mean=7.496, Std. Dev.=0.6224, n=16. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9756, critical = 0.844. Kappa = 2.556 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Within Limit

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 16 background values. Well-constituent pair annual alpha = 0.01287. Individual comparison alpha = 0.006456 (1 of 2).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 4:55 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:57 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-1
3/2/2016	5.78	
4/19/2016	5.8	
6/8/2016	5.83	
8/31/2016	5.85	
10/19/2016	5.87	
1/31/2017	5.83	
3/21/2017	5.83	
5/2/2017	5.73	
6/6/2017	5.83	
9/13/2017	5.91	
1/24/2018	5.9	
5/1/2018	5.83	
8/28/2018	5.78	
11/28/2018	5.82	
5/29/2019	5.82	
10/1/2019	5.47	
3/30/2020	5.79	
9/1/2020	5.89	
5/18/2021	5.86	
11/1/2021		6.01
5/24/2022		5.44
11/2/2022		5.56

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:57 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-10
3/1/2016	6.33	
4/20/2016	6.31	
6/8/2016	6.34	
8/31/2016	6.35	
10/19/2016	6.35	
2/1/2017	6.27	
3/22/2017	6.29	
5/3/2017	6.23	
6/7/2017	6.27	
9/14/2017	6.27	
1/23/2018	6.32	
5/2/2018	6.36	
8/28/2018	6.31	
11/28/2018	6.32	
5/30/2019	6.23	
9/30/2019	6.11	
3/31/2020	6.37	
9/1/2020	6.33	
5/11/2021	6.4	
10/27/2021		5.91
5/24/2022		5.81
11/2/2022		6.39

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:57 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-11
3/1/2016	6.34	
4/20/2016	6.31	
6/8/2016	6.33	
8/31/2016	6.29	
10/19/2016	6.26	
2/1/2017	6.22	
3/22/2017	6.22	
5/3/2017	6.15	
6/7/2017	6.21	
9/13/2017	6.26	
1/23/2018	6.28	
5/2/2018	6.33	
8/29/2018	6.3	
11/28/2018	6.28	
5/29/2019	6.24	
9/30/2019	5.85	
3/31/2020	6.26	
9/1/2020	5.87	
5/19/2021	6.33	
11/2/2021		5.84
5/23/2022		6.32
11/1/2022		6.28

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:57 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-12
3/2/2016	6.16	
4/20/2016	6.17	
6/8/2016	6.25	
8/31/2016	6.23	
10/19/2016	6.2	
2/1/2017	6.08	
3/22/2017	6.12	
5/3/2017	6.12	
6/7/2017	6.13	
9/13/2017	6.19	
1/23/2018	6.17	
5/2/2018	6.15	
8/29/2018	6.19	
11/28/2018	6.11	
5/29/2019	6.13	
10/1/2019	6	
3/31/2020	6.21	
9/1/2020	6.19	
5/18/2021	5.58	
11/1/2021		5.75
5/23/2022		6.12
11/1/2022		6.21

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:57 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13
3/2/2016	6.1	
4/20/2016	6.14	
6/8/2016	6.11	
8/31/2016	6.1	
10/19/2016	6.1	
1/31/2017	6.07	
3/22/2017	6.07	
5/3/2017	6.1	
6/7/2017	6.07	
9/13/2017	6.12	
1/22/2018	6.12	
5/2/2018	6.13	
8/29/2018	6.1	
11/28/2018	6.04	
5/29/2019	6.01	
10/1/2019	6.02	
3/31/2020	5.98	
9/1/2020	5.82	
5/19/2021	5.79	
10/26/2021		5.69
5/24/2022		5.5
11/1/2022		6.09

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:57 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-14
3/2/2016	6.08	
4/20/2016	6.04	
6/8/2016	6.13	
8/30/2016	6.08	
10/18/2016	6.13	
1/31/2017	6.06	
3/22/2017	6.09	
5/2/2017	5.94	
6/6/2017	6.1	
9/13/2017	6.11	
1/23/2018	6.12	
5/2/2018	6.13	
8/29/2018	6.14	
11/27/2018	6.07	
5/29/2019	6.07	
10/1/2019	6.01	
3/31/2020	5.76	
9/2/2020	5.8	
5/25/2021	5.82	
10/27/2021		6.41
5/25/2022		6.14
11/1/2022		5.93

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:57 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-15
3/2/2016	6.61	
4/19/2016	6.75	
6/8/2016	6.63	
8/31/2016	6.71	
10/19/2016	6.66	
1/31/2017	6.73	
3/21/2017	6.62	
5/2/2017	6.49	
6/6/2017	6.7	
9/13/2017	6.66	
1/22/2018	6.73	
5/1/2018	6.62	
8/29/2018	6.68	
11/27/2018	6.58	
5/29/2019	6.63	
10/1/2019	6.2	
4/1/2020	6.72	
9/2/2020	6.57	
5/11/2021	6.76	
10/26/2021		6.7
5/25/2022		6.68
11/1/2022		6.64

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16
3/2/2016	5.79	
4/19/2016	5.78	
6/8/2016	5.8	
8/31/2016	5.83	
10/19/2016	5.81	
1/31/2017	5.84	
3/21/2017	5.79	
5/2/2017	5.68	
6/6/2017	5.8	
9/13/2017	5.86	
1/23/2018	5.86	
5/1/2018	5.85	
8/29/2018	5.87	
11/27/2018	5.76	
5/29/2019	5.76	
10/1/2019	5.23	
3/31/2020	5.75	
9/2/2020	5.47	
5/19/2021	5.8	
11/1/2021		5.36
5/25/2022		5.74
11/1/2022		5.78

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-2
3/2/2016	6.08	
4/19/2016	5.92	
6/8/2016	5.9	
8/31/2016	5.87	
10/19/2016	5.82	
1/31/2017	5.87	
3/21/2017	5.85	
5/2/2017	5.61	
6/6/2017	5.82	
9/12/2017	5.61	
1/24/2018	5.83	
5/1/2018	5.8	
8/28/2018	5.56	
11/27/2018	5.71	
5/29/2019	5.7	
10/1/2019	4.97	
3/31/2020	5.71	
8/31/2020	5.57	
5/18/2021	5.83	
11/1/2021		5.2
5/24/2022		4.78
11/2/2022		5.68

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-3
3/2/2016	5.14	
4/19/2016	5.06	
6/7/2016	5.13	
8/31/2016	5.11	
10/19/2016	5.05	
1/31/2017	5.14	
3/21/2017	5.13	
5/2/2017	4.85	
6/6/2017	5.15	
9/12/2017	4.96	
1/24/2018	5.22	
5/1/2018	5.11	
8/28/2018	4.92	
11/27/2018	5.05	
5/29/2019	5.05	
10/1/2019	4.37	
3/31/2020	5.08	
9/1/2020	4.24	
5/18/2021	4.93	
11/1/2021		4.94
5/25/2022		4.64
11/1/2022		5.01

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-4
3/1/2016	5.19	
4/19/2016	5.06	
6/7/2016	4.7	
8/30/2016	4.77	
10/19/2016	4.67	
1/31/2017	4.42	
3/21/2017	4.45	
5/2/2017	4.46	
6/6/2017	4.89	
9/12/2017	4.71	
1/24/2018	5.03	
5/1/2018	4.44	
8/28/2018	4.85	
11/27/2018	4.78	
5/29/2019	4.65	
10/1/2019	4.28	
3/31/2020	4.69	
9/1/2020	4.23	
5/18/2021	4.17	
11/1/2021		5.18
5/25/2022		4.6
10/31/2022		4.65

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5
3/1/2016	5.99	
4/20/2016	5.96	
6/7/2016	6.03	
8/30/2016	6	
10/18/2016	5.99	
1/31/2017	5.96	
3/22/2017	6.01	
5/3/2017	5.99	
6/7/2017	6.01	
9/14/2017	6	
1/24/2018	5.98	
5/2/2018	5.99	
8/29/2018	6.03	
11/27/2018	6.01	
5/29/2019	5.93	
10/1/2019	5.47	
3/31/2020	6.01	
9/1/2020	5.93	
11/2/2021		6.36
5/25/2022		5.99
10/31/2022		5.99

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-6
3/1/2016	5.59	
4/19/2016	5.55	
6/7/2016	5.43	
8/30/2016	5.39	
10/19/2016	5.31	
1/31/2017	5.26	
3/22/2017	5.32	
5/3/2017	5.35	
6/7/2017	5.32	
9/14/2017	5.29	
1/24/2018	5.32	
5/2/2018	5.33	
8/29/2018	5.41	
11/28/2018	5.46	
5/29/2019	5.31	
10/1/2019	4.7	
3/31/2020	5.22	
9/2/2020	5.16	
5/17/2021	5.21	
11/2/2021		5.59
5/25/2022		4.57
10/31/2022		4.9

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7
3/1/2016	6.36	
4/20/2016	6.31	
6/7/2016	6.3	
8/31/2016	6.31	
10/19/2016	6.23	
1/31/2017	6.26	
3/22/2017	6.32	
5/3/2017	6.29	
6/7/2017	6.27	
9/14/2017	6.25	
1/24/2018	6.35	
5/2/2018	6.29	
11/28/2018	6.33	
5/29/2019	6.18	
9/30/2019	6.36	
3/30/2020	6.32	
9/2/2020	6.25	
5/18/2021	6.4	
10/27/2021		6.35
5/24/2022		6.32
10/31/2022		7.07

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-8
3/1/2016	6.21	
4/20/2016	6.22	
6/7/2016	6.26	
8/30/2016	6.21	
10/18/2016	6.21	
1/31/2017	6.17	
3/22/2017	6.22	
5/3/2017	6.22	
6/7/2017	6.21	
9/14/2017	6.18	
1/24/2018	6.16	
5/2/2018	6.17	
8/29/2018	6.21	
11/27/2018	6.18	
5/29/2019	6.11	
9/30/2019	6.19	
3/30/2020	6.2	
9/2/2020	5.89	
5/11/2021	6.25	
10/26/2021		6.26
5/24/2022		5.6
11/2/2022		6.28

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-AP-MW-9
3/1/2016	6.26	
4/20/2016	6.26	
6/8/2016	6.25	
8/31/2016	6.29	
10/19/2016	6.22	
2/1/2017	6.24	
3/22/2017	6.28	
5/3/2017	6.17	
6/7/2017	6.24	
9/14/2017	6.24	
1/23/2018	6.3	
5/2/2018	6.31	
8/28/2018	6.28	
11/28/2018	6.32	
5/30/2019	6.14	
9/30/2019	6.07	
3/31/2020	6.31	
9/2/2020	5.97	
5/18/2021	6.3	
10/27/2021		6.13
5/24/2022		6.03
10/31/2022		6.26

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-1	BY-UP-MW-1
2/23/2016	4.62	
4/19/2016	4.74	
6/6/2016	4.65	
8/30/2016	4.64	
10/18/2016	4.74	
1/31/2017	4.54	
3/20/2017	4.67	
5/2/2017	4.79	
6/6/2017	4.76	
9/13/2017	4.81	
1/23/2018	4.79	
5/2/2018	4.62	
11/27/2018	4.73	
5/29/2019	4.65	
10/2/2019	4.57	
3/31/2020	4.64	
9/9/2020	4.65	
5/12/2021	4.74	
10/19/2021		4.67
5/31/2022		3.89
11/1/2022		4.6

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2	BY-UP-MW-2
2/23/2016	4.79	
4/19/2016	4.84	
6/7/2016	4.81	
8/30/2016	4.76	
10/18/2016	4.84	
1/31/2017	4.6	
3/20/2017	4.71	
5/2/2017	4.8	
6/6/2017	4.72	
9/13/2017	4.71	
1/23/2018	4.67	
5/1/2018	4.61	
11/27/2018	4.72	
5/29/2019	4.58	
10/2/2019	4.43	
3/31/2020	4.6	
9/9/2020	4.67	
5/11/2021	4.29	
10/19/2021		4.6
5/31/2022		3.31
11/1/2022		4.42

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-3	BY-UP-MW-3
2/23/2016	4.96	
4/19/2016	4.94	
6/7/2016	4.96	
8/30/2016	4.92	
10/18/2016	4.98	
1/31/2017	4.74	
3/20/2017	4.9	
5/2/2017	4.98	
6/6/2017	4.94	
9/13/2017	4.93	
1/23/2018	4.91	
5/1/2018	4.87	
11/27/2018	4.94	
5/29/2019	4.8	
10/2/2019	4.52	
3/31/2020	4.4	
9/9/2020	4.76	
5/11/2021	4.53	
10/18/2021		4.55
5/31/2022		3.54
11/1/2022		4.12

Prediction Limit

Constituent: pH, field (SU) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-4	BY-UP-MW-4
2/23/2016	4.74	
4/19/2016	4.86	
6/6/2016	4.88	
8/30/2016	4.91	
10/18/2016	4.95	
1/31/2017	4.71	
3/20/2017	4.83	
5/2/2017	4.93	
6/6/2017	4.9	
9/12/2017	4.82	
1/23/2018	4.85	
5/1/2018	4.8	
11/26/2018	4.88	
5/28/2019	4.73	
10/2/2019	4.67	
3/31/2020	4.51	
9/8/2020	4.75	
5/11/2021	4.67	
10/18/2021		4.38
5/31/2022		3.97
11/1/2022		4.74

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-1
3/2/2016	0.31 (J)	
4/19/2016	0.335 (J)	
6/8/2016	0.556 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	6	
6/6/2017	<5	
9/13/2017	4.7 (J)	
5/1/2018	<5	
8/28/2018	<5	
11/28/2018	4.1 (J)	
5/29/2019	5.75	
10/1/2019		7.82
3/30/2020		28.4
9/1/2020		23.1
5/18/2021		16.5
11/1/2021		10.9
5/24/2022		21
11/2/2022		12.1

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-10
3/1/2016	0.34 (J)	
4/20/2016	<5	
6/8/2016	0.538 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	4.1 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/28/2018	<5	
11/28/2018	<5	
5/30/2019	3.76	
9/30/2019		2.77
3/31/2020		20.1
9/1/2020		15.6
5/11/2021		13.2
10/27/2021		5.72
5/24/2022		14.7
11/2/2022		10.2

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-11
3/1/2016	1.02	
4/20/2016	1.1	
6/8/2016	0.701 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	2.1 (J)	
5/3/2017	3.6 (J)	
6/7/2017	<5	
9/13/2017	<5	
5/2/2018	<5	
8/29/2018	2.3 (J)	
11/28/2018	<5	
5/29/2019	24.1	
9/30/2019		37.4
3/31/2020		57.5
9/1/2020		42.8
5/19/2021		16.5
11/2/2021		133
5/23/2022		29.3
11/1/2022		47.700001

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-12
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.511 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	2.1 (J)	
6/7/2017	<5	
9/13/2017	<5	
5/2/2018	<5	
8/29/2018	<5	
11/28/2018	<50 (O)	
5/29/2019	7.04	
10/1/2019		35.3
3/31/2020		35.8
9/1/2020		32.1
5/18/2021		25.1
11/1/2021		27
5/23/2022		13
11/1/2022		15.3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-13
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.496 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	6.9	
5/3/2017	6.6	
6/7/2017	6	
9/13/2017	2.2 (J)	
5/2/2018	4.1 (J)	
8/29/2018	<5	
11/28/2018	4.9 (J)	
5/29/2019	49.5 (o)	
10/1/2019		47.7
3/31/2020		23.2
9/1/2020		14.2
5/19/2021		50.4
10/26/2021		21
5/24/2022		38.3
11/1/2022		86.900002

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-14
3/2/2016	<5	
4/20/2016	<5	
6/8/2016	0.514 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/2/2017	1.8 (J)	
6/6/2017	<5	
9/13/2017	<5	
5/2/2018	1.6 (J)	
8/29/2018	<5	
11/27/2018	<5	
5/29/2019	67.6 (o)	
10/1/2019	61.6	
3/31/2020	34.7	
9/2/2020	18.5	
5/25/2021	59.2	
10/27/2021		98.5
5/25/2022		105
11/1/2022		86.099998

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-15	BY-AP-MW-15
3/2/2016	<5	
4/19/2016	<5	
6/8/2016	0.489 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/13/2017	<5	
5/1/2018	<5	
8/29/2018	6.2	
11/27/2018	<5	
5/29/2019	3.27	
10/1/2019	1.72	
4/1/2020	7.5	
9/2/2020	7.61	
5/11/2021	7.54	
10/26/2021		26.4
5/25/2022		1.8 (J)
11/1/2022		4.24

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-16
3/2/2016	<5	
4/19/2016	<5	
6/8/2016	0.514 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/13/2017	2.6 (J)	
5/1/2018	<5	
8/29/2018	3.9 (J)	
11/27/2018	<5	
5/29/2019	6.72	
10/1/2019	3.4	
3/31/2020	17.5 (o)	
9/2/2020	13.3 (o)	
5/19/2021	3.11	
11/1/2021		11.9
5/25/2022		6.29
11/1/2022		7.46

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-2
3/2/2016	3.3	
4/19/2016	2.68	
6/8/2016	1.1	
8/31/2016	<1	
10/19/2016	<1	
3/21/2017	<1	
5/2/2017	<1	
6/6/2017	<1	
9/12/2017	<1	
5/1/2018	<1	
8/28/2018	<1	
11/27/2018	<1	
5/29/2019	0.885 (J)	
10/1/2019	<1	
3/31/2020	1.69	
8/31/2020	0.576 (J)	
5/18/2021	<1	
11/1/2021		1.56
5/24/2022		0.615 (J)
11/2/2022		1.17 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-3	BY-AP-MW-3
3/2/2016	0.79 (J)	
4/19/2016	0.674 (J)	
6/7/2016	1	
8/31/2016	0.702 (J)	
10/19/2016	0.739 (J)	
3/21/2017	<5	
5/2/2017	<5	
6/6/2017	<5	
9/12/2017	<5	
5/1/2018	<5	
8/28/2018	<5	
11/27/2018	<5	
5/29/2019	0.747 (J)	
10/1/2019	0.61 (J)	
3/31/2020	1.02	
9/1/2020	0.705 (J)	
5/18/2021	0.883 (J)	
11/1/2021		1.01
5/25/2022		1.41 (J)
11/1/2022		1.66 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-4
3/1/2016	2.58	
4/19/2016	2.3	
6/7/2016	2.58	
8/30/2016	2.81	
10/19/2016	5.06	
3/21/2017	3.4 (J)	
5/2/2017	2.7 (J)	
6/6/2017	1.5 (J)	
9/12/2017	1.9 (J)	
5/1/2018	1.4 (J)	
8/28/2018	<5	
11/27/2018	2.3 (J)	
5/29/2019	2.92	
10/1/2019	2.09	
3/31/2020	4.12	
9/1/2020	1.83	
5/18/2021	4.43	
11/1/2021		3.34
5/25/2022		1.97 (J)
10/31/2022		1.02 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-5
3/1/2016	<5	
4/20/2016	<5	
6/7/2016	0.583 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/3/2017	<5	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/29/2018	1.6 (J)	
11/27/2018	2.7 (J)	
5/29/2019	5.51	
10/1/2019	7.4	
3/31/2020	23.7 (o)	
9/1/2020	11	
11/2/2021		15
5/25/2022		5.53
10/31/2022		15.2

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-6
3/1/2016	0.36 (J)	
4/19/2016	0.435 (J)	
6/7/2016	1.22	
8/30/2016	1.08	
10/19/2016	1.01	
3/22/2017	<5	
5/3/2017	1.4 (J)	
6/7/2017	1.5 (J)	
9/14/2017	1.8 (J)	
5/2/2018	<5	
8/29/2018	<5	
11/28/2018	<5	
5/29/2019	1.17	
10/1/2019	1.04	
3/31/2020	1.21	
9/2/2020	1.02	
5/17/2021	0.981 (J)	
11/2/2021		1.37
5/25/2022		1.27 (J)
10/31/2022		1.22 (J)

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-7
3/1/2016	0.3 (J)	
4/20/2016	0.514 (J)	
6/7/2016	0.971 (J)	
8/31/2016	0.445 (J)	
10/19/2016	0.366 (J)	
3/22/2017	<5	
5/3/2017	<5	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
11/28/2018	<5	
5/29/2019	2.77	
9/30/2019	2.51	
3/30/2020	4.78	
9/2/2020	3.59	
5/18/2021	4.6	
10/27/2021		5.17
5/24/2022		7.14
10/31/2022		33.799999

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-8	BY-AP-MW-8
3/1/2016	<5	
4/20/2016	<5	
6/7/2016	0.504 (J)	
8/30/2016	<5	
10/18/2016	<5	
3/22/2017	<5	
5/3/2017	2.7 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/29/2018	<5	
11/27/2018	<5	
5/29/2019	6.01	
9/30/2019		5.29
3/30/2020		33.1
9/2/2020		15.8
5/11/2021		35.4
10/26/2021		25.7
5/24/2022		81.3
11/2/2022		7.58

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9	BY-AP-MW-9
3/1/2016	<5	
4/20/2016	<5	
6/8/2016	0.51 (J)	
8/31/2016	<5	
10/19/2016	<5	
3/22/2017	<5	
5/3/2017	2.7 (J)	
6/7/2017	<5	
9/14/2017	<5	
5/2/2018	<5	
8/28/2018	<5	
11/28/2018	1.4 (J)	
5/30/2019	5.91	
9/30/2019		3.77
3/31/2020		43.5
9/2/2020		21.9
5/18/2021		27.7
10/27/2021		6.33
5/24/2022		5.76
10/31/2022		11.4

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-1	BY-UP-MW-1
2/23/2016	8.59	
4/19/2016	8.27	
6/6/2016	8.66	
8/30/2016	9.74	
10/18/2016	10.2	
3/20/2017	8.3	
5/2/2017	6.6	
6/6/2017	7.6	
9/13/2017	8.4	
5/2/2018	5.9	
11/27/2018	22	
5/29/2019	23.3	
10/2/2019	17.5	
3/31/2020	24.3	
9/9/2020	16.5	
5/12/2021	16.3	
10/19/2021		15.5
5/31/2022		12.8
11/1/2022		11.3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2	BY-UP-MW-2
2/23/2016	7.2	
4/19/2016	7.22	
6/7/2016	7.92	
8/30/2016	8.17	
10/18/2016	7.99	
3/20/2017	6.1	
5/2/2017	5	
6/6/2017	5.3	
9/13/2017	4.9 (J)	
5/1/2018	4.2 (J)	
5/29/2019	5.94	
10/2/2019	6.04	
3/31/2020	6.83	
9/9/2020	6.08	
5/11/2021	7.92	
10/19/2021		7.48
5/31/2022		8.09
11/1/2022		7.11

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-3	BY-UP-MW-3
2/23/2016	7.44	
4/19/2016	7.66	
6/7/2016	8.16	
8/30/2016	8.43	
10/18/2016	8.47	
3/20/2017	7.4	
5/2/2017	6.3	
6/6/2017	7.1	
9/13/2017	7.3	
5/1/2018	6.9	
11/27/2018	6.5	
5/29/2019	7.81	
10/2/2019	7.62	
3/31/2020	7.98	
9/9/2020	7.13	
5/11/2021	7.73	
10/18/2021		7.36
5/31/2022		7.02
11/1/2022		6.83

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 12/28/2022 4:58 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-4	BY-UP-MW-4
2/23/2016	7.04	
4/19/2016	6.74	
6/6/2016	7.04	
8/30/2016	7.57	
10/18/2016	6.62	
3/20/2017	7	
5/2/2017	5.6	
6/6/2017	6.6	
9/12/2017	7.2	
5/1/2018	5.9	
11/26/2018	5.1	
5/28/2019	7.1	
10/2/2019	6.88	
3/31/2020	10.8	
9/8/2020	6.52	
5/11/2021	6.8	
10/18/2021		6.58
5/31/2022		7.94
11/1/2022		4.59

FIGURE E.

Interwell Prediction Limits - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:02 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.188	11/2/2022	1.92	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-10	0.188	11/2/2022	2.02	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-16	0.188	11/1/2022	2.24	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-7	0.188	10/31/2022	0.28	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-8	0.188	11/2/2022	1.59	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-9	0.188	10/31/2022	2.3	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	BY-AP-MW-1	2.142	11/2/2022	38.9	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-10	2.142	11/2/2022	59.5	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-11	2.142	11/1/2022	26.4	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-12	2.142	11/1/2022	22.5	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-13	2.142	11/1/2022	25.2	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-14	2.142	11/1/2022	10.9	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-15	2.142	11/1/2022	6.57	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-16	2.142	11/1/2022	11.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-4	2.142	10/31/2022	3.38	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-5	2.142	10/31/2022	10.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-7	2.142	10/31/2022	2.36	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-8	2.142	11/2/2022	31	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-9	2.142	10/31/2022	38.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-1	9.9	11/2/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-10	9.9	11/2/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-11	9.9	11/1/2022	22.7	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-12	9.9	11/1/2022	24.9	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-13	9.9	11/1/2022	40.2	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-14	9.9	11/1/2022	53.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-15	9.9	11/1/2022	99.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-16	9.9	11/1/2022	23.5	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-4	9.9	10/31/2022	32.8	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-5	9.9	10/31/2022	17.5	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-7	9.9	10/31/2022	95.7	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-8	9.9	11/2/2022	26.6	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-9	9.9	10/31/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-13	0.125	11/1/2022	0.13	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-15	0.125	11/1/2022	0.177	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-7	0.125	10/31/2022	0.381	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	11/2/2022	404	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	11/2/2022	344	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	11/1/2022	419	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	11/1/2022	363	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-13	58	11/1/2022	313	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	11/1/2022	347	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	11/1/2022	278	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	11/1/2022	330	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	10/31/2022	71.3	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	10/31/2022	194	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	10/31/2022	291	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	11/2/2022	293	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	10/31/2022	329	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:02 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bq N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.188	11/2/2022	1.92	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-10	0.188	11/2/2022	2.02	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-11	0.188	11/1/2022	0.0727J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-12	0.188	11/1/2022	0.0777J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-13	0.188	11/1/2022	0.0445J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-14	0.188	11/1/2022	0.0519J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-15	0.188	11/1/2022	0.0712J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-16	0.188	11/1/2022	2.24	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-2	0.188	11/2/2022	0.1015ND	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-3	0.188	11/1/2022	0.1015ND	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-4	0.188	10/31/2022	0.1015ND	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-5	0.188	10/31/2022	0.0515J	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-6	0.188	10/31/2022	0.1015ND	No	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-7	0.188	10/31/2022	0.28	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-8	0.188	11/2/2022	1.59	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	BY-AP-MW-9	0.188	10/31/2022	2.3	Yes	75	n/a	n/a	80	n/a	n/a	0.0003376	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	BY-AP-MW-1	2.142	11/2/2022	38.9	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-10	2.142	11/2/2022	59.5	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-11	2.142	11/1/2022	26.4	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-12	2.142	11/1/2022	22.5	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-13	2.142	11/1/2022	25.2	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-14	2.142	11/1/2022	10.9	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-15	2.142	11/1/2022	6.57	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-16	2.142	11/1/2022	11.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-2	2.142	11/2/2022	2.03	No	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-3	2.142	11/1/2022	0.926	No	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-4	2.142	10/31/2022	3.38	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-5	2.142	10/31/2022	10.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-6	2.142	10/31/2022	1.63	No	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-7	2.142	10/31/2022	2.36	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-8	2.142	11/2/2022	31	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Calcium, total (mg/L)	BY-AP-MW-9	2.142	10/31/2022	38.1	Yes	76	1.498	0.3066	0	None	No	0.0004702	Param Inter 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-1	9.9	11/2/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-10	9.9	11/2/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-11	9.9	11/1/2022	22.7	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-12	9.9	11/1/2022	24.9	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-13	9.9	11/1/2022	40.2	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-14	9.9	11/1/2022	53.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-15	9.9	11/1/2022	99.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-16	9.9	11/1/2022	23.5	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-2	9.9	11/2/2022	8.49	No	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-3	9.9	11/1/2022	8.88	No	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-4	9.9	10/31/2022	32.8	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-5	9.9	10/31/2022	17.5	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-6	9.9	10/31/2022	7.48	No	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-7	9.9	10/31/2022	95.7	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-8	9.9	11/2/2022	26.6	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	BY-AP-MW-9	9.9	10/31/2022	25.1	Yes	76	n/a	n/a	0	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-1	0.125	11/2/2022	0.0665J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-10	0.125	11/2/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-11	0.125	11/1/2022	0.0612J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-12	0.125	11/1/2022	0.0695J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-13	0.125	11/1/2022	0.13	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-14	0.125	11/1/2022	0.0685J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-15	0.125	11/1/2022	0.177	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-16	0.125	11/1/2022	0.112J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-2	0.125	11/2/2022	0.0711J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-3	0.125	11/1/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-4	0.125	10/31/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-5	0.125	10/31/2022	0.0614J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-6	0.125	10/31/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-7	0.125	10/31/2022	0.381	Yes	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-8	0.125	11/2/2022	0.125ND	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	BY-AP-MW-9	0.125	10/31/2022	0.0788J	No	80	n/a	n/a	57.5	n/a	n/a	0.0002946	NP Inter (NDs) 1 of 2
TDS (mg/L)	BY-AP-MW-1	58	11/2/2022	404	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-10	58	11/2/2022	344	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-11	58	11/1/2022	419	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-12	58	11/1/2022	363	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

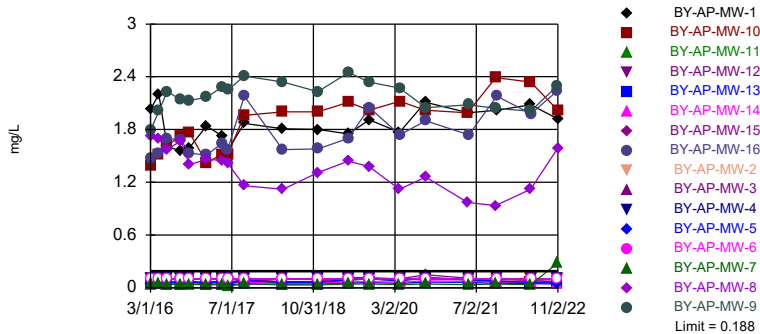
Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:02 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
TDS (mg/L)	BY-AP-MW-13	58	11/1/2022	313	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-14	58	11/1/2022	347	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-15	58	11/1/2022	278	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-16	58	11/1/2022	330	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-2	58	11/2/2022	41.3	No	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-3	58	11/1/2022	40	No	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-4	58	10/31/2022	71.3	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-5	58	10/31/2022	194	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-6	58	10/31/2022	46	No	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-7	58	10/31/2022	291	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-8	58	11/2/2022	293	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2
TDS (mg/L)	BY-AP-MW-9	58	10/31/2022	329	Yes	76	n/a	n/a	9.211	n/a	n/a	0.000329	NP Inter (normality) 1 of 2

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-16, BY-AP-MW-7, BY-AP-MW-8, BY-AP-MW-9

Prediction Limit

Interwell Non-parametric



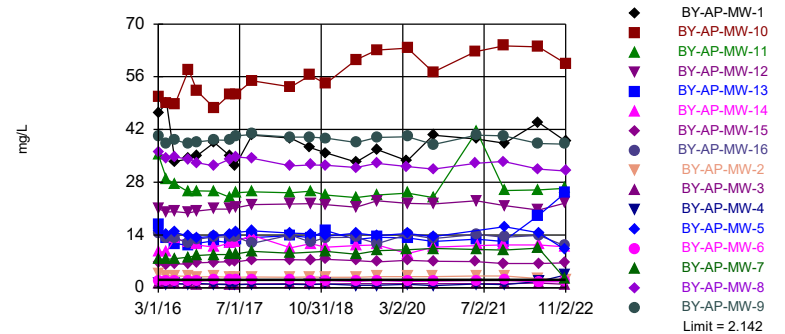
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 75 background values. 80% NDs. Annual per-constituent alpha = 0.01075. Individual comparison alpha = 0.0003376 (1 of 2). Comparing 16 points to limit.

Constituent: Boron, total Analysis Run 12/28/2022 5:01 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit

Interwell Parametric



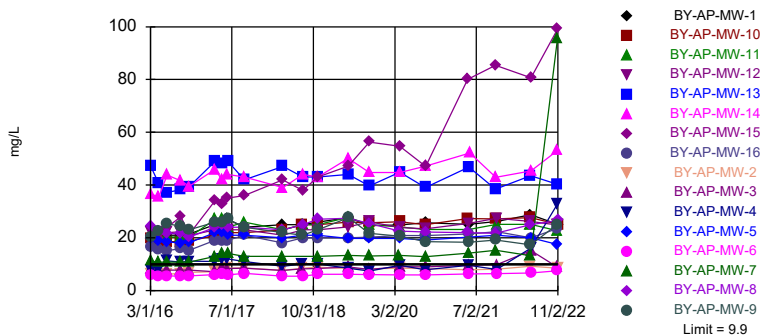
Background Data Summary: Mean=1.498, Std. Dev.=0.3066, n=76. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9728, critical = 0.957. Kappa = 2.102 (c=7, w=16, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0004702. Comparing 16 points to limit.

Constituent: Calcium, total Analysis Run 12/28/2022 5:01 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 76 background values. Annual per-constituent alpha = 0.01047. Individual comparison alpha = 0.000329 (1 of 2). Comparing 16 points to limit.

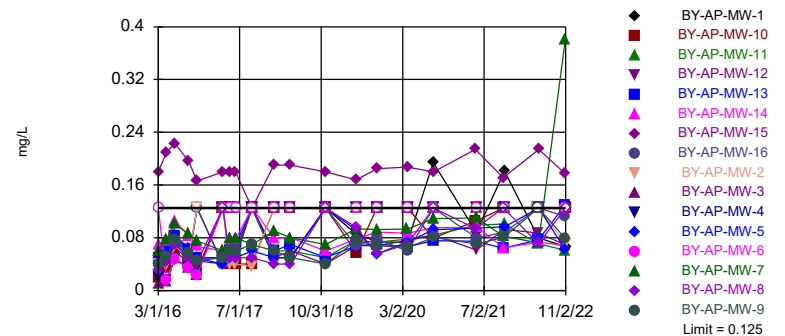
Constituent: Chloride, Total Analysis Run 12/28/2022 5:01 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Hollow symbols indicate censored values.

Exceeds Limit: BY-AP-MW-13, BY-AP-MW-15, BY-AP-MW-7

Prediction Limit

Interwell Non-parametric



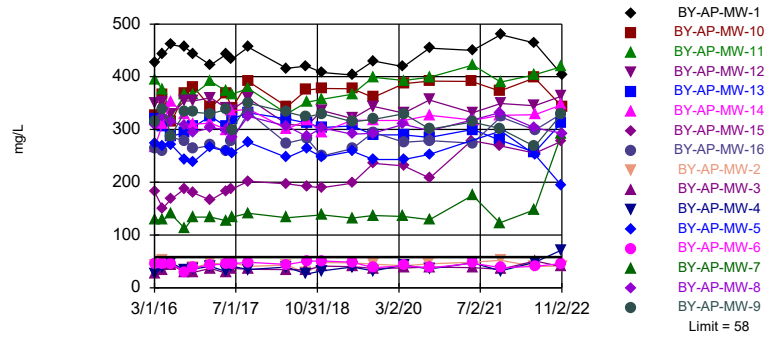
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 80 background values. 57.5% NDs. Annual per-constituent alpha = 0.009386. Individual comparison alpha = 0.0002946 (1 of 2). Comparing 16 points to limit.

Constituent: Fluoride, total Analysis Run 12/28/2022 5:01 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Exceeds Limit: BY-AP-MW-1, BY-AP-MW-10, BY-AP-MW-11, BY-AP-MW-12, BY-AP-MW-13, BY-AP-MW-14, BY-AP-MW-15,...

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 76 background values. 9.211% NDs. Annual per-constituent alpha = 0.01047. Individual comparison alpha = 0.000329 (1 of 2). Comparing 16 points to limit.

Constituent: TDS Analysis Run 12/28/2022 5:01 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-4 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-1 (bg)	BY-AP-MW-8	BY-AP-MW-6	BY-AP-MW-5	BY-AP-MW-9	BY-AP-MW-4
2/23/2016	0.0257 (J)	<0.1015	0.0252 (J)	0.0212 (J)					
3/1/2016					1.72	<0.1015	0.0462 (J)	1.79	<0.1015
3/2/2016									
4/19/2016	<0.1015	<0.1015	<0.1015	<0.1015		<0.1015			<0.1015
4/20/2016					1.7		0.0719 (J)	2.01	
6/6/2016	<0.1015			<0.1015					
6/7/2016		<0.1015	0.0202 (J)		1.57	<0.1015	0.0591 (J)		<0.1015
6/8/2016								2.23	
8/30/2016	<0.1015	<0.1015	<0.1015	<0.1015	1.67	<0.1015	0.0675 (J)		<0.1015
8/31/2016								2.14	
10/18/2016	0.022 (J)	<0.1015	<0.1015	<0.1015	1.4		0.0699 (J)		
10/19/2016						<0.1015		2.13	<0.1015
1/31/2017	<0.1015	<0.1015	<0.1015	<0.1015	1.46	<0.1015	0.0518 (J)		<0.1015
2/1/2017								2.17	
5/2/2017	<0.1015	<0.1015	<0.1015	<0.1015					<0.1015
5/3/2017					1.45	<0.1015	0.0737 (J)	2.28	
6/6/2017	<0.1015	<0.1015	<0.1015	<0.1015					<0.1015
6/7/2017					1.41	<0.1015	0.0518 (J)	2.25	
9/12/2017	<0.1015								<0.1015
9/13/2017		<0.1015	<0.1015	<0.1015					
9/14/2017					1.16	<0.1015	0.0825 (J)	2.41	
5/1/2018	<0.1015	<0.1015	<0.1015						<0.1015
5/2/2018				0.0362 (J)	1.12	<0.1015	0.0603 (J)	2.34	
11/26/2018	<0.1015								
11/27/2018		<0.1015		0.11	1.31		0.0613 (J)		<0.1015
11/28/2018						<0.1015		2.23	
5/28/2019	<0.1015								
5/29/2019		<0.1015	<0.1015	0.188	1.44	<0.1015	0.0946 (J)		<0.1015
5/30/2019								2.45	
9/30/2019					1.38			2.34	
10/1/2019						<0.1015	0.103		<0.1015
10/2/2019	<0.1015	<0.1015	<0.1015	0.097 (J)					
3/30/2020					1.12				
3/31/2020	<0.1015	<0.1015	<0.1015	0.157		<0.1015	0.0782 (J)	2.27	<0.1015
4/1/2020									
8/31/2020									
9/1/2020							0.115		<0.1015
9/2/2020					1.26	<0.1015		2.05	
9/8/2020	<0.1015								
9/9/2020		<0.1015	<0.1015	0.0999 (J)					
5/11/2021	<0.1015	<0.1015	<0.1015		0.971				
5/12/2021				0.0841 (J)					
5/17/2021						<0.1015			
5/18/2021								2.08	<0.1015
5/19/2021									
5/25/2021									
10/18/2021	<0.1015	<0.1015							
10/19/2021			<0.1015	0.0708 (J)					
10/26/2021					0.933				
10/27/2021								2.04	
11/1/2021									<0.1015
11/2/2021						<0.1015	0.0755 (J)		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-4 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-1 (bg)	BY-AP-MW-8	BY-AP-MW-6	BY-AP-MW-5	BY-AP-MW-9	BY-AP-MW-4
5/23/2022									
5/24/2022					1.12			2.01	
5/25/2022						<0.1015	0.063 (J)		<0.1015
5/31/2022	<0.1015	<0.1015	<0.1015	0.0567 (J)					
10/31/2022						<0.1015	0.0515 (J)	2.3	<0.1015
11/1/2022	<0.1015	<0.1015	<0.1015	0.0501 (J)					
11/2/2022					1.59				

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-16	BY-AP-MW-15	BY-AP-MW-14	BY-AP-MW-13	BY-AP-MW-3	BY-AP-MW-2
2/23/2016									
3/1/2016	0.0546 (J)	1.39	0.0482 (J)						
3/2/2016				1.47	0.0447 (J)	0.0395 (J)	0.0328 (J)	<0.1015	<0.1015
4/19/2016				1.53	0.0645 (J)			<0.1015	<0.1015
4/20/2016	0.0472 (J)	1.51	0.059 (J)			0.0549 (J)	0.0434 (J)		
6/6/2016									
6/7/2016	0.0417 (J)							<0.1015	
6/8/2016		1.62	0.0568 (J)	1.7	0.0592 (J)	0.0593 (J)	0.0391 (J)		<0.1015
8/30/2016						0.0534 (J)			
8/31/2016	0.036 (J)	1.73	0.0651 (J)	1.68	0.0632 (J)		0.0401 (J)	<0.1015	<0.1015
10/18/2016						0.0597 (J)			
10/19/2016	0.0386 (J)	1.77	0.06 (J)	1.53	0.0637 (J)		0.0427 (J)	<0.1015	<0.1015
1/31/2017	0.0343 (J)			1.51	0.0536 (J)	0.0479 (J)	0.034 (J)	<0.1015	<0.1015
2/1/2017		1.42	0.0638 (J)						
5/2/2017				1.64	0.0775 (J)	0.0587 (J)		<0.1015	<0.1015
5/3/2017	0.037 (J)	1.52	0.0655 (J)				0.0416 (J)		
6/6/2017				1.57	0.0535 (J)	0.0428 (J)		<0.1015	<0.1015
6/7/2017	0.0227 (J)	1.52	0.0468 (J)				0.0277 (J)		
9/12/2017								<0.1015	<0.1015
9/13/2017			0.0751 (J)	2.18	0.0937 (J)	0.0647 (J)	0.044 (J)		
9/14/2017	0.0471 (J)	1.96							
5/1/2018				1.57	0.0683 (J)			<0.1015	<0.1015
5/2/2018	0.0313 (J)	2	0.0545 (J)			0.0484 (J)	0.0393 (J)		
11/26/2018									
11/27/2018				1.58	0.0715 (J)	0.0493 (J)		<0.1015	<0.1015
11/28/2018	0.0311 (J)	2	0.0545 (J)				0.0417 (J)		
5/28/2019									
5/29/2019	0.042 (J)		0.082 (J)	1.7	0.116	0.0682 (J)	0.0528 (J)	<0.1015	<0.1015
5/30/2019		2.11							
9/30/2019	0.0418 (J)	2.02	0.103						
10/1/2019				2.05	0.116	0.0701 (J)	0.0604 (J)	<0.1015	<0.1015
10/2/2019									
3/30/2020	0.0369 (J)								
3/31/2020		2.12	0.0815 (J)	1.74		0.0655 (J)	0.0505 (J)	<0.1015	<0.1015
4/1/2020					0.1				
8/31/2020									<0.1015
9/1/2020		2.02	0.104				0.0642 (J)	<0.1015	
9/2/2020	0.042 (J)			1.9	0.148	0.0789 (J)			
9/8/2020									
9/9/2020									
5/11/2021		1.99			0.109				
5/12/2021									
5/17/2021									
5/18/2021	0.037 (J)							<0.1015	<0.1015
5/19/2021			0.0856 (J)	1.74			0.0604 (J)		
5/25/2021						0.074 (J)			
10/18/2021									
10/19/2021									
10/26/2021					0.0953 (J)		0.0511 (J)		
10/27/2021	0.0427 (J)	2.39				0.0677 (J)			
11/1/2021				2.18				<0.1015	<0.1015
11/2/2021			0.0691 (J)						

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-7	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-16	BY-AP-MW-15	BY-AP-MW-14	BY-AP-MW-13	BY-AP-MW-3	BY-AP-MW-2
5/23/2022			0.0558 (J)						
5/24/2022	0.0369 (J)	2.34					0.0457 (J)		<0.1015
5/25/2022				1.98	0.0826 (J)	0.0618 (J)		<0.1015	
5/31/2022									
10/31/2022	0.28								
11/1/2022			0.0727 (J)	2.24	0.0712 (J)	0.0519 (J)	0.0445 (J)	<0.1015	
11/2/2022		2.02							<0.1015

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-12
2/23/2016		
3/1/2016		
3/2/2016	2.03	0.0502 (J)
4/19/2016	2.2	
4/20/2016		0.0672 (J)
6/6/2016		
6/7/2016		
6/8/2016	1.61	0.0659 (J)
8/30/2016		
8/31/2016	1.55	0.065 (J)
10/18/2016		
10/19/2016	1.59	0.0721 (J)
1/31/2017	1.84	
2/1/2017		0.06 (J)
5/2/2017	1.73	
5/3/2017		0.0768 (J)
6/6/2017	1.56	
6/7/2017		0.0625 (J)
9/12/2017		
9/13/2017	1.87	0.0926 (J)
9/14/2017		
5/1/2018	1.81	
5/2/2018		0.064 (J)
11/26/2018		
11/27/2018		
11/28/2018	1.8	0.064 (J)
5/28/2019		
5/29/2019	1.75	0.0952 (J)
5/30/2019		
9/30/2019		
10/1/2019	1.91	0.0967 (J)
10/2/2019		
3/30/2020	1.77	
3/31/2020		0.0856 (J)
4/1/2020		
8/31/2020		
9/1/2020	2.11	0.115
9/2/2020		
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	1.99	0.0927 (J)
5/19/2021		
5/25/2021		
10/18/2021		
10/19/2021		
10/26/2021		
10/27/2021		
11/1/2021	2.02	0.0769 (J)
11/2/2021		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-12
5/23/2022		0.0626 (J)
5/24/2022	2.08	
5/25/2022		
5/31/2022		
10/31/2022		
11/1/2022		0.0777 (J)
11/2/2022	1.92	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-3 (bg)	BY-AP-MW-11	BY-AP-MW-9	BY-AP-MW-8	BY-AP-MW-7	BY-AP-MW-6
2/23/2016	1.28	1.11	1.42	1.77					
3/1/2016					35.3	40.3	36.1	7.65	1.87
3/2/2016									
4/19/2016	1.19	1.09	1.31	1.68					1.69
4/20/2016					28.9	38.2	34.5	7.54	
6/6/2016	1.19		1.35						
6/7/2016		1.16		1.68			34.7	7.71	1.75
6/8/2016					27.6	39.2			
8/30/2016	1.11	1.08	1.31	1.62			34.1		1.77
8/31/2016					25.4	38.2		8.1	
10/18/2016	1.04	1.03	1.22	1.53			33.2		
10/19/2016					25.7	38.7		8.59	1.8
1/31/2017	1.19	1.23	1.36	1.65			32.3	8.78	1.98
2/1/2017					25.6	39.2			
5/2/2017	1.05	1.28	1.24	1.58					
5/3/2017					24	39.1	34.1	8.85	1.97
6/6/2017	0.978	1.25	1.28	1.55					
6/7/2017					25.2	40.3	34.7	8.99	1.98
9/12/2017			1.47						
9/13/2017	1.14	1.6		1.71	25.5				
9/14/2017						40.7	34.4	9.64	2.14
5/1/2018		1.58	1.47	1.76					
5/2/2018	1.64				25.2	40	32.3	9.14	2.13
8/28/2018						40			
8/29/2018					25.6		32.6		1.92
11/26/2018			1.52						
11/27/2018	2.01	1.49		1.69			32.5		
11/28/2018					24.6	39.7		9.66	1.91
5/28/2019			1.6						
5/29/2019	1.85	1.59		1.74	23.9		31.9	8.88	1.72
5/30/2019						38.5			
9/30/2019					24.6	39.9	33	9.8	
10/1/2019									1.92
10/2/2019	1.55	1.7	1.7	1.86					
3/30/2020							32.2	10.1	
3/31/2020	1.96	1.43	1.78	1.92	25.1	40.1			1.68
4/1/2020									
8/31/2020									
9/1/2020					23.9				
9/2/2020						38	31.5	10.4	1.8
9/8/2020			1.94						
9/9/2020	1.43	1.5		1.97					
5/11/2021		1.39	1.93	2.06			33		
5/12/2021	1.34								
5/17/2021									1.93
5/18/2021						40.5		10.2	
5/19/2021					41.5				
5/25/2021									
10/18/2021			2.01	2.1					
10/19/2021	1.17	1.32							
10/26/2021							33.5		
10/27/2021						40.3		10	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-3 (bg)	BY-AP-MW-11	BY-AP-MW-9	BY-AP-MW-8	BY-AP-MW-7	BY-AP-MW-6
11/1/2021									
11/2/2021					25.8				1.97
5/23/2022					26				
5/24/2022						38.3	31.5	10.5	
5/25/2022									1.62
5/31/2022	1.14	1.24	2.02	1.95					
10/31/2022						38.099998		2.36	1.63
11/1/2022	1.01	1.23	1.59	1.94	26.4				
11/2/2022							31		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
 Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-10	BY-AP-MW-4	BY-AP-MW-16	BY-AP-MW-14	BY-AP-MW-13	BY-AP-MW-15	BY-AP-MW-2	BY-AP-MW-3
2/23/2016									
3/1/2016	15	50.6	1.07						
3/2/2016				14.6	9.53	16.7	6.61	3.86	1.11
4/19/2016			0.969	13.3			5.97	3.22	1.01
4/20/2016	14.3	49.1			9.55	13.1			
6/6/2016									
6/7/2016	14.8		1.08						1.06
6/8/2016		48.7		13.2	13.1	11.7	6.36	3.17	
8/30/2016	13.7		0.952		12.1				
8/31/2016		57.9		11.8		11.3	6.28	3.07	0.978
10/18/2016	13.3				11.4				
10/19/2016		52.2	1.17	12.9		11.8	6.57	2.91	0.906
1/31/2017	13.7		0.946	13.5	10.8	12.5	6.77	2.94	1.04
2/1/2017		47.6							
5/2/2017			0.826	13.5	11.9		6.94	2.82	0.969
5/3/2017	14.3	51.3				12			
6/6/2017			0.834	13.6	12.2		6.88	2.79	0.902
6/7/2017	14.7	51.4				12.8			
9/12/2017			0.884					2.88	0.988
9/13/2017				11.8	13.9	13.3	7.43		
9/14/2017	15.1	54.9							
5/1/2018			0.921	14			7.42	2.82	1.07
5/2/2018	14.5	53.3			10.6	13.8			
8/28/2018		56.4	0.8					2.85	1.02
8/29/2018	14.3			12.1	11.7	13.3	7.37		
11/26/2018									
11/27/2018	13.7		1.01	13.3	10.8		7.58	2.8	0.999
11/28/2018		54.2				15.2			
5/28/2019									
5/29/2019	14.5		0.627	13.4	11.2	12.8	7.22	2.82	1.09
5/30/2019		60.5							
9/30/2019		63.1							
10/1/2019	13.8		0.645	11.7	11.4	13.4	6.9	2.94	1.08
10/2/2019									
3/30/2020									
3/31/2020	14.4	63.6	0.898	14.2	9.04	13.2		2.95	1.1
4/1/2020							7.32		
8/31/2020								3	
9/1/2020	13.6	57.2	0.566			12.3			1.08
9/2/2020				13.1	10.8		7.04		
9/8/2020									
9/9/2020									
5/11/2021		62.7					6.98		
5/12/2021									
5/17/2021									
5/18/2021			0.974					3.17	1.12
5/19/2021				14.2		12.9			
5/25/2021					11.2				
10/18/2021									
10/19/2021									
10/26/2021						12.3	6.46		
10/27/2021		64.2			11.4				

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-10	BY-AP-MW-4	BY-AP-MW-16	BY-AP-MW-14	BY-AP-MW-13	BY-AP-MW-15	BY-AP-MW-2	BY-AP-MW-3
11/1/2021			0.816	13.4				3.13	1.09
11/2/2021	16.2								
5/23/2022									
5/24/2022		63.9				19.2		2.45	
5/25/2022	14.6		1.69	13.9	11.4		6.41		1.29
5/31/2022									
10/31/2022	10.1		3.38						
11/1/2022				11.1	10.9	25.200001	6.57		0.926
11/2/2022		59.5						2.03	

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
2/23/2016		
3/1/2016		
3/2/2016	21	46.5
4/19/2016		49
4/20/2016	20.1	
6/6/2016		
6/7/2016		
6/8/2016	20.2	33.5
8/30/2016		
8/31/2016	19.9	34.2
10/18/2016		
10/19/2016	20.4	35.1
1/31/2017		38.5
2/1/2017	20.9	
5/2/2017		35.1
5/3/2017	20.9	
6/6/2017		32.4
6/7/2017	21.2	
9/12/2017		
9/13/2017	22.1	40.5
9/14/2017		
5/1/2018		39.7
5/2/2018	22.2	
8/28/2018		37.2
8/29/2018	22.3	
11/26/2018		
11/27/2018		
11/28/2018	22.1	35.8
5/28/2019		
5/29/2019	21.4	33.4
5/30/2019		
9/30/2019		
10/1/2019	23.1	36.7
10/2/2019		
3/30/2020		33.7
3/31/2020	22.4	
4/1/2020		
8/31/2020		
9/1/2020	22.2	40.5
9/2/2020		
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	23.1	39.5
5/19/2021		
5/25/2021		
10/18/2021		
10/19/2021		
10/26/2021		
10/27/2021		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
11/1/2021	21.8	38.4
11/2/2021		
5/23/2022	20.6	
5/24/2022		43.9
5/25/2022		
5/31/2022		
10/31/2022		
11/1/2022	22.5	
11/2/2022		38.900002

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-4	BY-AP-MW-6	BY-AP-MW-11
2/23/2016	3.68	3.5	3.59	3.99					
3/1/2016					11.2	24.5	7.74	5.77	21.7
3/2/2016									
4/19/2016	3.72	3.63	2.89	4.08			7.66	5.57	
4/20/2016					10.8	22.5			20.7
6/6/2016		3.6	3.12						
6/7/2016	3.66			4.28	10.8	21.6	11.3	5.52	
6/8/2016									20.4
8/30/2016	3.7	3.54	3.91	4.26		21.6	10.8	5.5	
8/31/2016					10.8				20.3
10/18/2016	3.77	3.68	3.9	4.26		20.2			
10/19/2016					10.8		11.1	5.55	20.3
3/20/2017	3.7	4.6	3.5	4.1					
3/21/2017							11		
3/22/2017					13	24		6	27
5/2/2017	4.6 (D)	3.9 (D)	3.5 (D)	5 (D)			12		
5/3/2017					14	25		6.4	27
6/6/2017	3.4 (D)	3.4 (D)	3.1 (D)	3.9 (D)			12		
6/7/2017					14	24		5.9	24
9/12/2017		4.3					11		
9/13/2017	3.9		4	4.3					26
9/14/2017					13	24		6.5	
5/1/2018	4.1	3.8		3.7			9.2		
5/2/2018			9.9		13	23		5.5	23
8/28/2018							10		
8/29/2018						25		5.4	25
11/26/2018		3.6							
11/27/2018	3.5		4.7	3.2		27	10		
11/28/2018					13			6.2	25
5/28/2019		3.6							
5/29/2019	3.58		5.48	2.93	13.3	27.4	8.53	6.15	27.8
5/30/2019									
9/30/2019					13.1	25.5			25
10/1/2019							7.35	5.99	
10/2/2019	3.64	3.5	3.65	2.75					
3/30/2020					13.3	22.6			
3/31/2020	3.47	3.34	3.17	2.72			9.54	5.94	24.1
4/1/2020									
8/31/2020									
9/1/2020							7.82		23.2
9/2/2020					12.9	22.2		5.94	
9/8/2020		3.29							
9/9/2020	3.47		2.92	2.32					
5/11/2021	3.42	3.33		2.16		21.9			
5/12/2021			2.18						
5/17/2021								6.26	
5/18/2021					14.2		9.53		
5/19/2021									23.1
5/25/2021									
10/18/2021	3.45	3.32							
10/19/2021			2.37	2.08					
10/26/2021						21.7			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-3 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-4	BY-AP-MW-6	BY-AP-MW-11
10/27/2021					15.3				
11/1/2021							7.99		
11/2/2021								6.4	25.1
5/23/2022									25.1
5/24/2022					13.2	25			
5/25/2022							16.1	6.63	
5/31/2022	3.39	3.31	1.93	2.17					
10/31/2022					95.699997		32.799999	7.48	
11/1/2022	3.09	3.3	2.37	2.22					22.700001
11/2/2022						26.6			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-10	BY-AP-MW-9	BY-AP-MW-5	BY-AP-MW-14	BY-AP-MW-3	BY-AP-MW-13	BY-AP-MW-12	BY-AP-MW-15	BY-AP-MW-2
2/23/2016									
3/1/2016	19.6	20.4	19.7						
3/2/2016				36.6	8.04	47.3	22.2	20.9	6.08
4/19/2016					7.6			19.8	6.2
4/20/2016	18.8	22.7	18.9	35.5		40.5	21.7		
6/6/2016									
6/7/2016			18.5		7.7				
6/8/2016	18.6	25.3		43.8		37.2	22	24	6.2
8/30/2016			17.9	41.6					
8/31/2016	18.5	24.4			7.7	38.2	22.3	28	6.51
10/18/2016			18.2	39.5					
10/19/2016	18.7	23			7.73	39.4	20.8	21.3	6.85
3/20/2017									
3/21/2017					7.2			34	7.2
3/22/2017	21	26	22	46		49	23		
5/2/2017				42	8.6			33	8.3
5/3/2017	22	26	22			48	25		
6/6/2017				44	8.3			35	8.5
6/7/2017	22	27	21			49	23		
9/12/2017					8.5				8.6
9/13/2017				43		42	23	36	
9/14/2017	22	24	21						
5/1/2018					7.6			42	7.6
5/2/2018	23	22	20	39		47	21		
8/28/2018	25	21			8.2				8.5
8/29/2018			21	44		43	23	38	
11/26/2018									
11/27/2018			21	43	8.4			43	8.8
11/28/2018	25	23				43	23		
5/28/2019									
5/29/2019			19.7	50.1	9.01	44	24.1	47.2	8.31
5/30/2019	25.9	27.7							
9/30/2019	25.7	21.7							
10/1/2019			19.8	44.8	8.05	39.6	26.1	56.3	8.19
10/2/2019									
3/30/2020									
3/31/2020	26.1	20.6	19.8	44.7	9.07	44.9	23.9		8.48
4/1/2020								54.7	
8/31/2020									8.3
9/1/2020	25		19.1		8.97	39.1	23.4		
9/2/2020		18.5		47.2				47	
9/8/2020									
9/9/2020									
5/11/2021	27.3							80	
5/12/2021									
5/17/2021									
5/18/2021		18.3			9.52		25.4		7.89
5/19/2021						46.8			
5/25/2021				52.1					
10/18/2021									
10/19/2021									
10/26/2021						38.4		85.4	

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-1
2/23/2016		
3/1/2016		
3/2/2016	16.6	2.18 (O)
4/19/2016	15.7	9.01 (O)
4/20/2016		
6/6/2016		
6/7/2016		
6/8/2016	15.1	21
8/30/2016		
8/31/2016	15.9	21
10/18/2016		
10/19/2016	15.3	21.4
3/20/2017		
3/21/2017	19	25
3/22/2017		
5/2/2017	19	26
5/3/2017		
6/6/2017	19	27
6/7/2017		
9/12/2017		
9/13/2017	21	24
9/14/2017		
5/1/2018	18	25
5/2/2018		
8/28/2018		25
8/29/2018	20	
11/26/2018		
11/27/2018	20	
11/28/2018		26
5/28/2019		
5/29/2019	20	27.6
5/30/2019		
9/30/2019		
10/1/2019	20.3	24.6
10/2/2019		
3/30/2020		24.9
3/31/2020	20.8	
4/1/2020		
8/31/2020		
9/1/2020		25.7
9/2/2020	20.8	
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021		25.1
5/19/2021	21.4	
5/25/2021		
10/18/2021		
10/19/2021		
10/26/2021		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-16	BY-AP-MW-1
10/27/2021		
11/1/2021	22.3	26.2
11/2/2021		
5/23/2022		
5/24/2022		28.7
5/25/2022	20	
5/31/2022		
10/31/2022		
11/1/2022	23.5	
11/2/2022		25.1

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-1 (bg)	BY-AP-MW-5	BY-AP-MW-9	BY-AP-MW-8	BY-AP-MW-7	BY-AP-MW-11
2/23/2016	0.02 (J)	0.02 (J)	0.02 (J)	0.03 (J)					
3/1/2016					0.04 (J)	0.04 (J)	0.03 (J)	0.06 (J)	0.06 (J)
3/2/2016									
4/19/2016	0.021 (J)	0.015 (J)	0.016 (J)	0.023 (J)					
4/20/2016					0.043 (J)	0.052 (J)	0.043 (J)	0.078 (J)	0.073 (J)
6/6/2016		0.05 (J)		0.062 (J)					
6/7/2016	0.06 (J)		0.052 (J)		0.075 (J)		0.069 (J)	0.101 (J)	
6/8/2016						0.077 (J)			0.085 (J)
8/30/2016	0.05 (J)	0.036 (J)	0.038 (J)	0.053 (J)	0.057 (J)		0.052 (J)		
8/31/2016						0.056 (J)		0.086 (J)	0.064 (J)
10/18/2016	0.04 (J)	0.025 (J)	0.03 (J)	0.042 (J)	0.049 (J)		0.042 (J)		
10/19/2016						0.045 (J)		0.075 (J)	0.05 (J)
3/20/2017	<0.125	<0.125	<0.125	<0.125					
3/21/2017									
3/22/2017					0.04 (J)	0.05 (J)	<0.125	0.06 (J)	0.05 (J)
5/2/2017	0.04 (JD)	0.1 (D)	0.1 (D)	0.04 (JD)					
5/3/2017					0.05 (J)	0.06 (J)	0.05 (J)	0.08 (J)	0.06 (J)
6/6/2017	0.04 (JD)	0.1 (D)	0.1 (D)	0.1 (D)					
6/7/2017					0.05 (J)	0.06 (J)	0.05 (J)	0.08 (J)	0.06 (J)
9/12/2017		<0.125							
9/13/2017	0.043 (J)		<0.125	0.04 (J)					<0.125 (U*)
9/14/2017					0.06 (J)	0.07 (J)	0.05 (J)	0.07 (J)	
1/22/2018									
1/23/2018	0.04 (J)	<0.125	<0.125	<0.125		0.06 (J)			0.06 (J)
1/24/2018					0.05 (J)		0.04 (J)	0.09 (J)	
5/1/2018	0.04 (J)	<0.125	<0.125						
5/2/2018				0.04 (J)	0.05 (J)	0.05 (J)	0.04 (J)	0.08 (J)	0.06 (J)
11/26/2018		<0.125							
11/27/2018	<0.125		<0.125	<0.125	<0.125		<0.125		
11/28/2018						0.04 (J)		0.07 (J)	0.05 (J)
5/28/2019		<0.125							
5/29/2019	<0.125		<0.125	0.0502 (J)	0.0923 (J)		0.0958 (J)	0.0937 (J)	0.0759 (J)
5/30/2019						0.0763 (J)			
9/30/2019						0.0679 (J)	0.0559 (J)	0.0925 (J)	0.0733 (J)
10/1/2019					0.0557 (J)				
10/2/2019	<0.125	<0.125	<0.125	<0.125					
3/30/2020							0.0701 (J)	0.0933 (J)	
3/31/2020	<0.125	<0.125	<0.125	<0.125	0.0735 (J)	0.0655 (J)			0.078 (J)
4/1/2020									
8/31/2020									
9/1/2020					0.0921 (J)				0.0841 (J)
9/2/2020						0.0804 (J)	<0.125	0.109	
9/8/2020		<0.125							
9/9/2020	<0.125		<0.125	<0.125					
5/11/2021	<0.125	<0.125	<0.125				0.094 (J)		
5/12/2021				<0.125					
5/17/2021									
5/18/2021						0.0709 (J)		0.11	
5/19/2021									0.0994 (J)
5/25/2021									
10/18/2021		<0.125	<0.125						
10/19/2021	<0.125			<0.125					

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-2 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-3 (bg)	BY-UP-MW-1 (bg)	BY-AP-MW-5	BY-AP-MW-9	BY-AP-MW-8	BY-AP-MW-7	BY-AP-MW-11
10/26/2021							<0.125		
10/27/2021						0.0803 (J)		0.0823 (J)	
11/1/2021									
11/2/2021					0.0964 (J)				0.101
5/23/2022									0.0709 (J)
5/24/2022						<0.125	0.0713 (J)	0.0724 (J)	
5/25/2022					<0.125				
5/31/2022	<0.125	<0.125	<0.125	<0.125					
10/31/2022					0.0614 (J)	0.0788 (J)		0.381	
11/1/2022	<0.125	<0.125	<0.125	<0.125					0.0612 (J)
11/2/2022							<0.125		

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-10	BY-AP-MW-4	BY-AP-MW-12	BY-AP-MW-3	BY-AP-MW-2	BY-AP-MW-16	BY-AP-MW-15	BY-AP-MW-13
2/23/2016									
3/1/2016	<0.125	0.02 (J)	0.02 (J)						
3/2/2016				0.04 (J)	0.01 (J)	0.04 (J)	0.04 (J)	0.18 (J)	0.05 (J)
4/19/2016	0.016 (J)		0.016 (J)		0.014 (J)	0.038 (J)	0.05 (J)	0.21 (J)	
4/20/2016		0.034 (J)		0.059 (J)					0.064 (J)
6/6/2016									
6/7/2016	0.048 (J)		0.047 (J)		0.049 (J)				
6/8/2016		0.061 (J)		0.08 (J)		0.067 (J)	0.073 (J)	0.223 (J)	0.082 (J)
8/30/2016	0.034 (J)		0.035 (J)						
8/31/2016		0.04 (J)		0.059 (J)	0.034 (J)	0.05 (J)	0.051 (J)	0.196 (J)	0.062 (J)
10/18/2016									
10/19/2016	0.023 (J)	0.03 (J)	0.025 (J)	0.045 (J)	0.023 (J)	<0.125	<0.125	0.166 (J)	0.049 (J)
3/20/2017									
3/21/2017			<0.125		<0.125	<0.125	0.04 (J)	0.18	
3/22/2017	<0.125	<0.125		0.04 (J)					0.05 (J)
5/2/2017			<0.125		<0.125	0.04 (J)	0.05 (J)	0.18	
5/3/2017	<0.125	0.04 (J)		0.06 (J)					0.06 (J)
6/6/2017			<0.125		<0.125	0.04 (J)	0.053 (J)	0.18	
6/7/2017	<0.125	0.04 (J)		0.06 (J)					0.07 (J)
9/12/2017			<0.125		<0.125	0.037 (J)			
9/13/2017				<0.125 (U*)			<0.125 (U*)	<0.125 (U*)	<0.125 (U*)
9/14/2017	<0.125	0.04 (J)							
1/22/2018								0.19	0.06 (J)
1/23/2018		<0.125		0.05 (J)			0.05 (J)		
1/24/2018	<0.125		<0.125		<0.125	<0.125			
5/1/2018			<0.125		<0.125	<0.125	0.05 (J)	0.19	
5/2/2018	<0.125	<0.125		0.06 (J)					0.07 (J)
11/26/2018									
11/27/2018			<0.125		<0.125	<0.125	<0.125	0.18	
11/28/2018	<0.125	<0.125		0.04 (J)					0.05 (J)
5/28/2019									
5/29/2019	<0.125		<0.125	0.0677 (J)	<0.125	<0.125	0.0683 (J)	0.168	0.0679 (J)
5/30/2019		0.0573 (J)							
9/30/2019		<0.125							
10/1/2019	<0.125		<0.125	0.0682 (J)	<0.125	<0.125	0.0774 (J)	0.185	0.0703 (J)
10/2/2019									
3/30/2020									
3/31/2020	<0.125	<0.125	<0.125	0.0755 (J)	<0.125	<0.125	0.0602 (J)		0.0665 (J)
4/1/2020								0.187	
8/31/2020						<0.125			
9/1/2020		0.0794 (J)	<0.125	0.0845 (J)	<0.125				0.0757 (J)
9/2/2020	<0.125						<0.125	0.18	
9/8/2020									
9/9/2020									
5/11/2021		0.105						0.214	
5/12/2021									
5/17/2021	<0.125								
5/18/2021			<0.125	0.0614 (J)	<0.125	<0.125			
5/19/2021							0.0793 (J)		0.0748 (J)
5/25/2021									
10/18/2021									
10/19/2021									

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-10	BY-AP-MW-4	BY-AP-MW-12	BY-AP-MW-3	BY-AP-MW-2	BY-AP-MW-16	BY-AP-MW-15	BY-AP-MW-13
10/26/2021								0.171	0.0641 (J)
10/27/2021		<0.125							
11/1/2021			<0.125	0.0928 (J)	<0.125	<0.125	0.0887 (J)		
11/2/2021	<0.125								
5/23/2022				0.0873 (J)					
5/24/2022		<0.125 (D)				<0.125			0.0769 (J)
5/25/2022	<0.125		<0.125		<0.125		<0.125	0.214	
5/31/2022									
10/31/2022	<0.125		<0.125						
11/1/2022				0.0695 (J)	<0.125		0.112 (J)	0.177	0.13
11/2/2022		<0.125				0.0711 (J)			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-14
2/23/2016		
3/1/2016		
3/2/2016	0.03 (J)	0.07 (J)
4/19/2016	0.052 (J)	
4/20/2016		0.076 (J)
6/6/2016		
6/7/2016		
6/8/2016	0.069 (J)	0.105 (J)
8/30/2016		0.083 (J)
8/31/2016	0.043 (J)	
10/18/2016		0.067 (J)
10/19/2016	<0.125	
3/20/2017		
3/21/2017	0.04 (J)	
3/22/2017		0.06 (J)
5/2/2017	0.05 (J)	0.08 (J)
5/3/2017		
6/6/2017	0.049 (J)	0.077 (J)
6/7/2017		
9/12/2017		
9/13/2017	<0.125 (U*)	<0.125 (U*)
9/14/2017		
1/22/2018		
1/23/2018		0.08 (J)
1/24/2018	0.05 (J)	
5/1/2018	0.05 (J)	
5/2/2018		0.08 (J)
11/26/2018		
11/27/2018		0.06 (J)
11/28/2018	<0.125	
5/28/2019		
5/29/2019	0.0858 (J)	0.0781 (J)
5/30/2019		
9/30/2019		
10/1/2019	0.0744 (J)	0.0885 (J)
10/2/2019		
3/30/2020	0.0726 (J)	
3/31/2020		0.0867 (J)
4/1/2020		
8/31/2020		
9/1/2020	0.194	
9/2/2020		0.0957 (J)
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	0.0884 (J)	
5/19/2021		
5/25/2021		0.0957 (J)
10/18/2021		
10/19/2021		

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-14
10/26/2021		
10/27/2021		0.0651 (J)
11/1/2021	0.181	
11/2/2021		
5/23/2022		
5/24/2022	0.0801 (J)	
5/25/2022		0.0733 (J)
5/31/2022		
10/31/2022		
11/1/2022		0.0685 (J)
11/2/2022	0.0665 (J)	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-3 (bg)	BY-AP-MW-11	BY-AP-MW-9	BY-AP-MW-8	BY-AP-MW-7	BY-AP-MW-6
2/23/2016	26.7	30.7	<25	40					
3/1/2016					395	314	309	129	45.3
3/2/2016									
4/19/2016	<25	<25	<25	32					46
4/20/2016					376	338	324	128	
6/6/2016	32.7		28.7						
6/7/2016		35.3		38.7			314	140	46
6/8/2016					324	288			
8/30/2016	33.3	27.3	25.3	31.3			308		30
8/31/2016					367	334		112	
10/18/2016	27.3	<25	<25	26.7			295		
10/19/2016					367	333		134	37.3
1/31/2017	32	32.7	26	30			303	134	43.3
2/1/2017					391	330			
5/2/2017	31.3	30.7	<25	30.7					
5/3/2017					373	338	300	127	44.7
6/6/2017	35.3	34.7	42.7	32.7					
6/7/2017					367	300	284	134	45.3
9/12/2017			26.7						
9/13/2017	36.7	39.3		38	378				
9/14/2017						350	325	141	48.7
5/1/2018		42	34.7	35.3					
5/2/2018	34				330	333	306	133	44
8/28/2018						324			
8/29/2018					352		287		50
11/26/2018			32.7						
11/27/2018	50.7	31.3		36			303		
11/28/2018					357	330		138	50.7
5/28/2019			31.3						
5/29/2019	58	40		37.3	367		291	132	48.7
5/30/2019						315			
9/30/2019					399	319	293	137	
10/1/2019									38
10/2/2019	46	41.3	36	36.7					
3/30/2020							310	135	
3/31/2020	53.3	40	36.7	39.3	393	330			42
4/1/2020									
8/31/2020									
9/1/2020					399				
9/2/2020						301	298	129	37.3
9/8/2020			39.3						
9/9/2020	42	40.7		42.7					
5/11/2021		35.3	46.7	44			318		
5/12/2021	40.7								
5/17/2021									46.7
5/18/2021						314		175	
5/19/2021					422				
5/25/2021									
10/18/2021			36	36					
10/19/2021	40	36							
10/26/2021							332		
10/27/2021						302		123	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-UP-MW-1 (bg)	BY-UP-MW-2 (bg)	BY-UP-MW-4 (bg)	BY-UP-MW-3 (bg)	BY-AP-MW-11	BY-AP-MW-9	BY-AP-MW-8	BY-AP-MW-7	BY-AP-MW-6
11/1/2021									
11/2/2021					390				38
5/23/2022					404				
5/24/2022						268	303	148	
5/25/2022									40.7
5/31/2022	32	30.7	36.7	35.3					
10/31/2022						329		291	46
11/1/2022	33.299999	36	31.299999	36	419				
11/2/2022							293		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-5	BY-AP-MW-10	BY-AP-MW-4	BY-AP-MW-16	BY-AP-MW-14	BY-AP-MW-13	BY-AP-MW-15	BY-AP-MW-2	BY-AP-MW-3
2/23/2016									
3/1/2016	273	326	27.3						
3/2/2016				263	266	319	182	42	27.3
4/19/2016			38	259			151	51.3	33.3
4/20/2016	269	366			311	305			
6/6/2016									
6/7/2016	272		48.7						44
6/8/2016		314		285	353	287	168	46.7	
8/30/2016	244		32.7		328				
8/31/2016		368		279		295	188	32.7	29.3
10/18/2016	238				310				
10/19/2016		381	36	264		305	180	37.3	29.3
1/31/2017	266		40.7	270	312	325	166	47.3	36.7
2/1/2017		342							
5/2/2017			30.7	259	300		183	44	28
5/3/2017	259	369				306			
6/6/2017			41.3	278	335		187	48	36.7
6/7/2017	255	340				320			
9/12/2017			34.7					40.7	35.3
9/13/2017				333	339	332	202		
9/14/2017	276	391							
5/1/2018			39.3	274			197	42.7	34.7
5/2/2018	247	343			301	320			
8/28/2018		375	26					28	34
8/29/2018	263			283	318	312	192		
11/26/2018									
11/27/2018	248		32	250	295		190	48	41.3
11/28/2018		378				304			
5/28/2019									
5/29/2019	259		39.3	264	318	307	198	47.3	40
5/30/2019		377							
9/30/2019		361							
10/1/2019	243		32	295	317	290	236	44.7	36.7
10/2/2019									
3/30/2020									
3/31/2020	243	387	42.7	276	317	290		42	37.3
4/1/2020							231		
8/31/2020								45.3	
9/1/2020	253	392	36			285			39.3
9/2/2020				279	327		208		
9/8/2020									
9/9/2020									
5/11/2021		391					279		
5/12/2021									
5/17/2021									
5/18/2021			47.3					48.7	38
5/19/2021				274		300			
5/25/2021					318				
10/18/2021									
10/19/2021									
10/26/2021						280	269		
10/27/2021		373			327				

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 12/28/2022 5:02 PM View: All

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
2/23/2016		
3/1/2016		
3/2/2016	351	426
4/19/2016		442
4/20/2016	353	
6/6/2016		
6/7/2016		
6/8/2016	330	461
8/30/2016		
8/31/2016	354	456
10/18/2016		
10/19/2016	354	444
1/31/2017		422
2/1/2017	360	
5/2/2017		442
5/3/2017	341	
6/6/2017		433
6/7/2017	337	
9/12/2017		
9/13/2017	359	456
9/14/2017		
5/1/2018		416
5/2/2018	310	
8/28/2018		420
8/29/2018	307	
11/26/2018		
11/27/2018		
11/28/2018	336	408
5/28/2019		
5/29/2019	321	403
5/30/2019		
9/30/2019		
10/1/2019	344	430
10/2/2019		
3/30/2020		419
3/31/2020	331	
4/1/2020		
8/31/2020		
9/1/2020	356	454
9/2/2020		
9/8/2020		
9/9/2020		
5/11/2021		
5/12/2021		
5/17/2021		
5/18/2021	332	450
5/19/2021		
5/25/2021		
10/18/2021		
10/19/2021		
10/26/2021		
10/27/2021		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 12/28/2022 5:02 PM View: All
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-12	BY-AP-MW-1
11/1/2021	349	480
11/2/2021		
5/23/2022	345	
5/24/2022		464
5/25/2022		
5/31/2022		
10/31/2022		
11/1/2022	363	
11/2/2022		404

FIGURE F.

Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-10	0.1168	118	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-16	0.07268	102	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-8	-0.09591	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-10	2.259	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-12	0.3866	102	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-7	0.4296	115	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-8	-0.4773	-107	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-3 (bg)	0.06981	96	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-4 (bg)	0.119	115	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-10	1.516	146	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-12	0.6274	114	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-14	1.483	102	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-15	9.86	170	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-16	0.926	134	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-7	0.5421	93	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-2 (bg)	-0.3719	-116	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-3 (bg)	-0.05707	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-4 (bg)	-0.05635	-85	-74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-1 (bg)	0.01192	90	81	Yes	20	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-2 (bg)	0.0155	95	81	Yes	20	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-3 (bg)	0.008119	99	81	Yes	20	65	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-4 (bg)	0.007668	99	81	Yes	20	65	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-2 (bg)	-0.06496	-139	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-3 (bg)	-0.08244	-131	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-4 (bg)	-0.04665	-103	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-1	1.895	117	81	Yes	20	30	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-11	6.899	129	81	Yes	20	30	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-12	1.996	85	74	Yes	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-13	4.041	85	74	Yes	19	26.32	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-14	8.964	93	74	Yes	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-5	0.2582	71	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-7	0.8322	80	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-8	1.397	113	81	Yes	20	50	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	15.47	142	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-4 (bg)	2.028	94	74	Yes	19	21.05	n/a	n/a	0.01	NP

Trend Tests Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	BY-AP-MW-1	0.04908	51	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-10	0.1168	118	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-16	0.07268	102	74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-7	0	0	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-8	-0.09591	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-AP-MW-9	0.01378	20	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-1 (bg)	-0.00002481	-33	-74	No	19	42.11	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-2 (bg)	0	29	68	No	18	88.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-3 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Boron, total (mg/L)	BY-UP-MW-4 (bg)	0	27	74	No	19	89.47	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-1	0.4254	18	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-10	2.259	124	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-11	-0.2594	-32	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-12	0.3866	102	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-13	0.3352	55	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-14	-0.06003	-12	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-15	0.07367	33	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-16	0	-1	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-4	-0.02274	-30	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-5	-0.03352	-14	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-7	0.4296	115	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-8	-0.4773	-107	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-AP-MW-9	0	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-1 (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-2 (bg)	0.04873	50	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-3 (bg)	0.06981	96	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	BY-UP-MW-4 (bg)	0.119	115	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-1	0.605	67	68	No	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-10	1.516	146	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-11	0.3194	34	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-12	0.6274	114	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-13	-0.1529	-12	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-14	1.483	102	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-15	9.86	170	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-16	0.926	134	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-4	-0.09927	-7	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-5	0	-3	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-7	0.5421	93	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-8	0.2295	33	81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-AP-MW-9	-0.8711	-60	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-1 (bg)	-0.1727	-47	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-2 (bg)	-0.3719	-116	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-3 (bg)	-0.05707	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	BY-UP-MW-4 (bg)	-0.05635	-85	-74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-AP-MW-13	0.003038	80	81	No	20	5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-AP-MW-15	0	-11	-81	No	20	5	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-AP-MW-7	0.004949	71	81	No	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-1 (bg)	0.01192	90	81	Yes	20	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-2 (bg)	0.0155	95	81	Yes	20	50	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-3 (bg)	0.008119	99	81	Yes	20	65	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	BY-UP-MW-4 (bg)	0.007668	99	81	Yes	20	65	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-7	0.008333	42	87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-AP-MW-8	-0.006483	-35	-92	No	22	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-1 (bg)	-0.008464	-28	-87	No	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-2 (bg)	-0.06496	-139	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-3 (bg)	-0.08244	-131	-87	Yes	21	0	n/a	n/a	0.01	NP
pH, field (SU)	BY-UP-MW-4 (bg)	-0.04665	-103	-87	Yes	21	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-1	1.895	117	81	Yes	20	30	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-10	0.9379	78	81	No	20	45	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-11	6.899	129	81	Yes	20	30	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-12	1.996	85	74	Yes	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-13	4.041	85	74	Yes	19	26.32	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-14	8.964	93	74	Yes	19	47.37	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-16	0	31	68	No	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-5	0.2582	71	68	Yes	18	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-7	0.8322	80	74	Yes	19	31.58	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-8	1.397	113	81	Yes	20	50	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-AP-MW-9	0.3271	74	81	No	20	45	n/a	n/a	0.01	NP

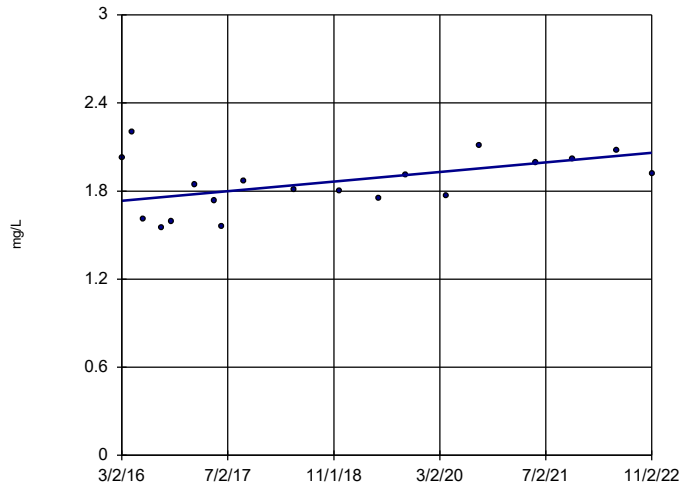
Trend Tests - Prediction Limit Exceedances - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:07 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate as SO4 (mg/L)	BY-UP-MW-1 (bg)	1.189	47	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-2 (bg)	0.02841	4	68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-3 (bg)	-0.09149	-41	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	BY-UP-MW-4 (bg)	-0.04825	-24	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-1	-1.283	-16	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-10	5.606	79	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-11	6.77	71	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-12	-0.1763	-1	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-13	-4.349	-55	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-14	2.87	50	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-15	15.47	142	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-16	5.134	66	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-4	1.651	44	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-5	-3.829	-49	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-7	2.46	49	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-8	-1.191	-20	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-AP-MW-9	-3.957	-58	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-1 (bg)	2.576	69	74	No	19	5.263	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-2 (bg)	1.577	62	74	No	19	10.53	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-3 (bg)	0.9846	45	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	BY-UP-MW-4 (bg)	2.028	94	74	Yes	19	21.05	n/a	n/a	0.01	NP

Sen's Slope Estimator

BY-AP-MW-1

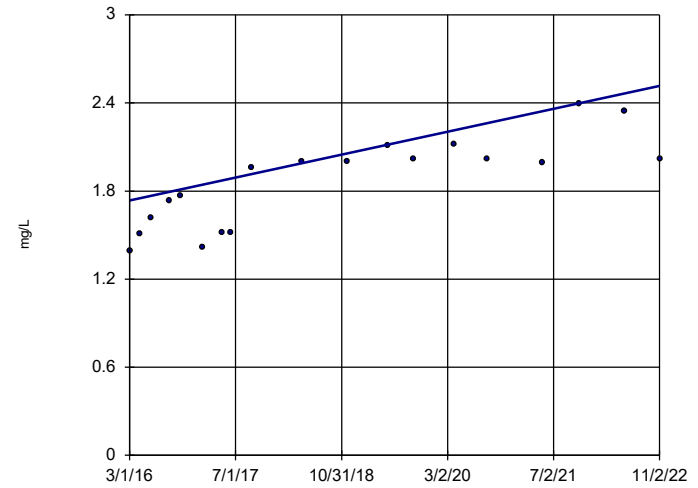


n = 19
 Slope = 0.04908
 units per year.
 Mann-Kendall
 statistic = 51
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

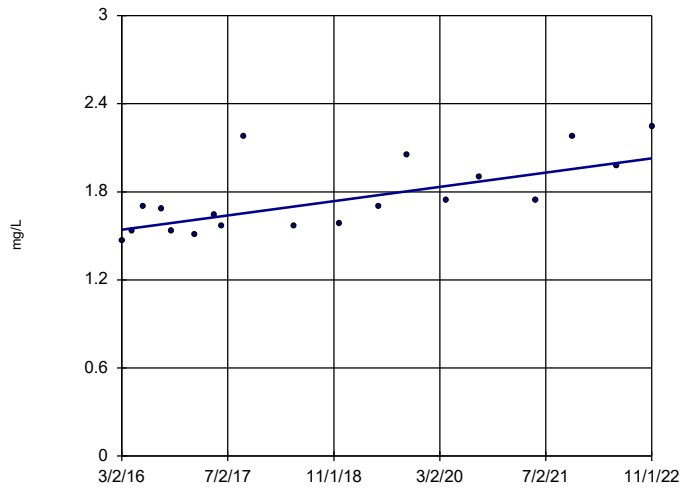


n = 19
 Slope = 0.1168
 units per year.
 Mann-Kendall
 statistic = 118
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

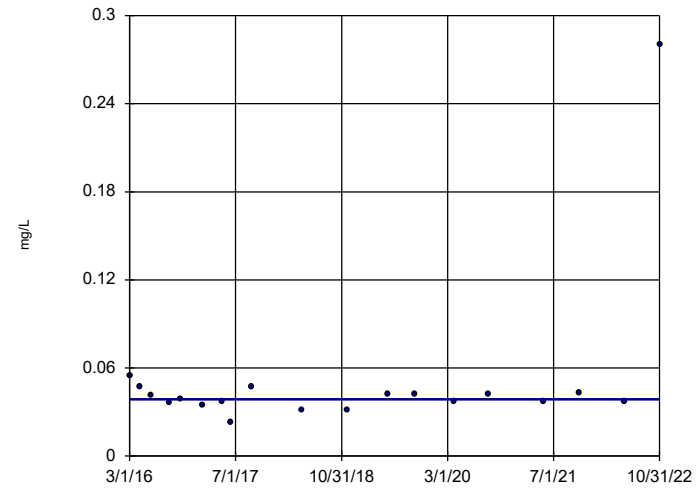


n = 19
 Slope = 0.07268
 units per year.
 Mann-Kendall
 statistic = 102
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-7

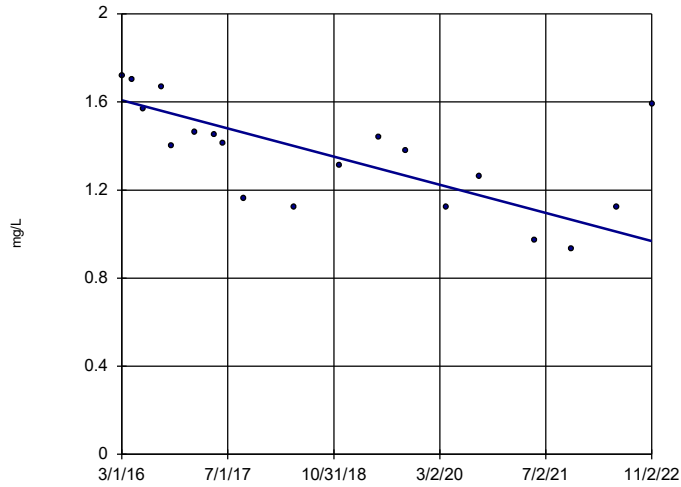


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

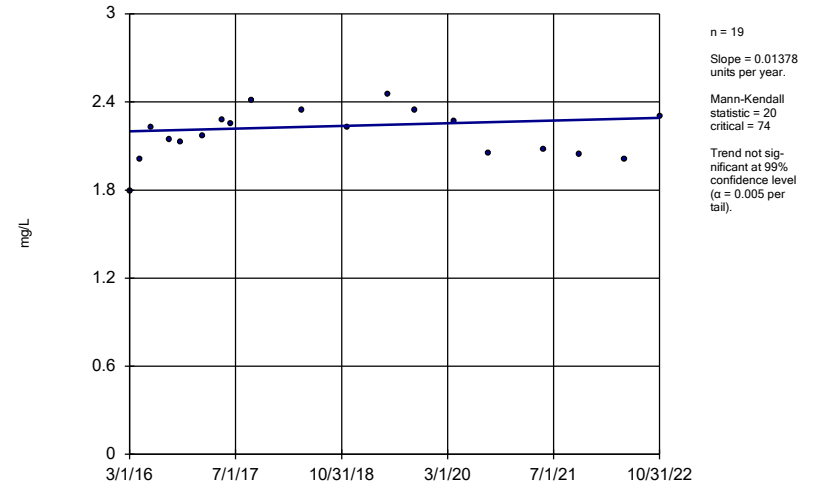
BY-AP-MW-8



Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

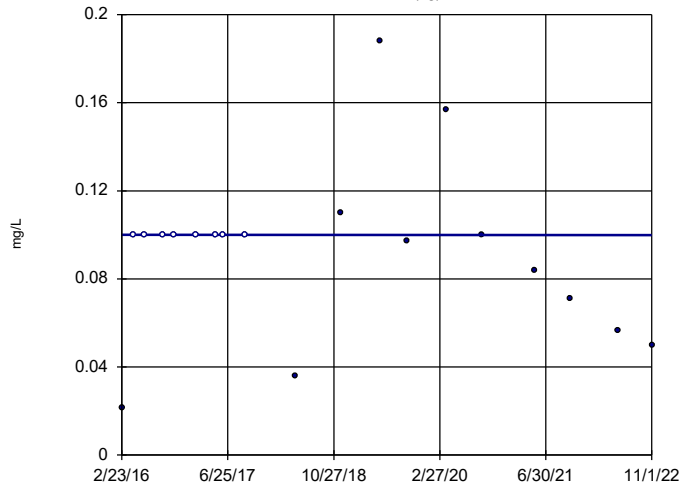
BY-AP-MW-9



Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

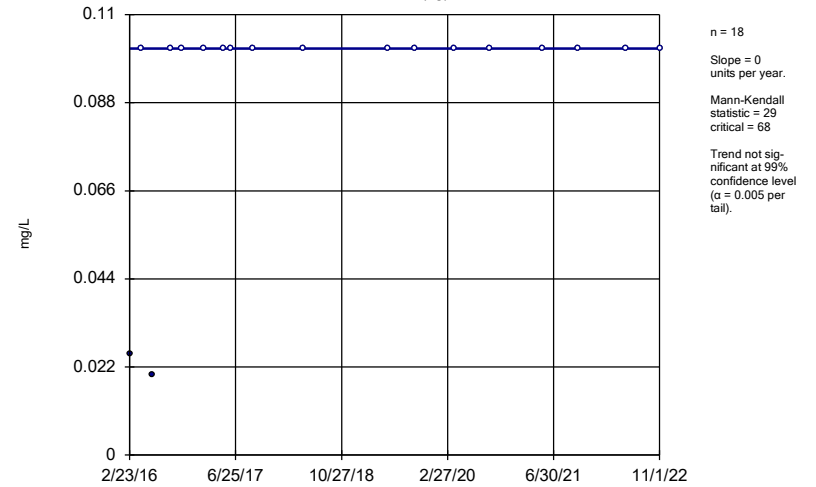
BY-UP-MW-1 (bg)



Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

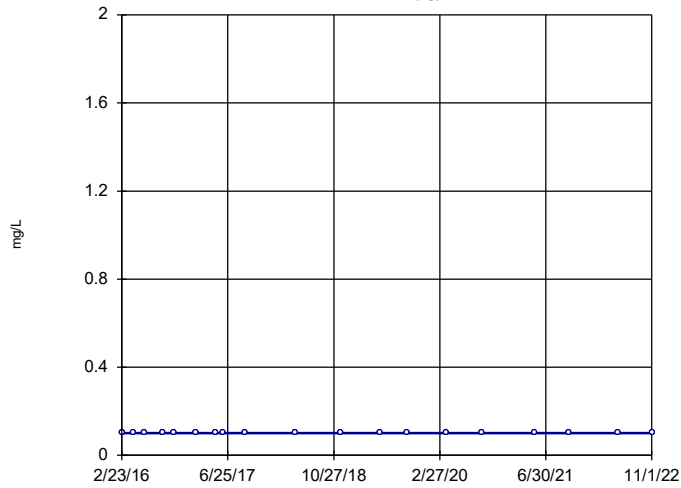
BY-UP-MW-2 (bg)



Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-3 (bg)

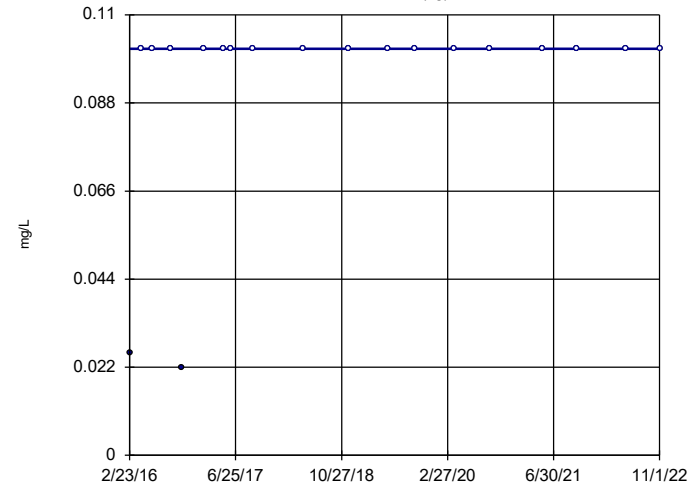


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-4 (bg)

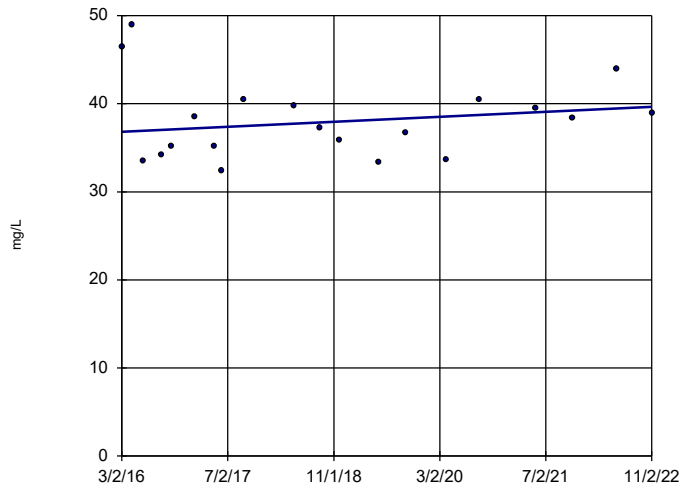


n = 19
Slope = 0
units per year.
Mann-Kendall
statistic = 27
critical = 74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron, total Analysis Run 12/28/2022 5:04 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-1

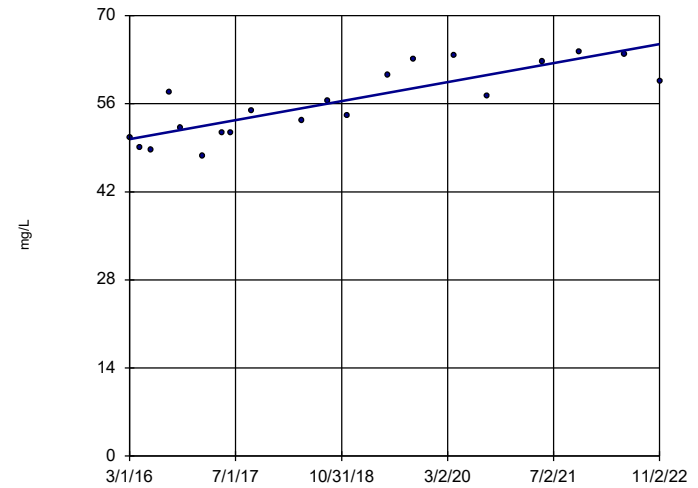


n = 20
Slope = 0.4254
units per year.
Mann-Kendall
statistic = 18
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

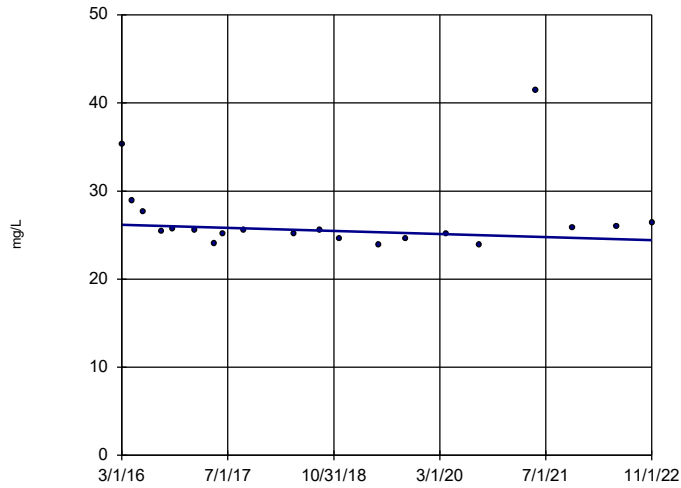


n = 20
Slope = 2.259
units per year.
Mann-Kendall
statistic = 124
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

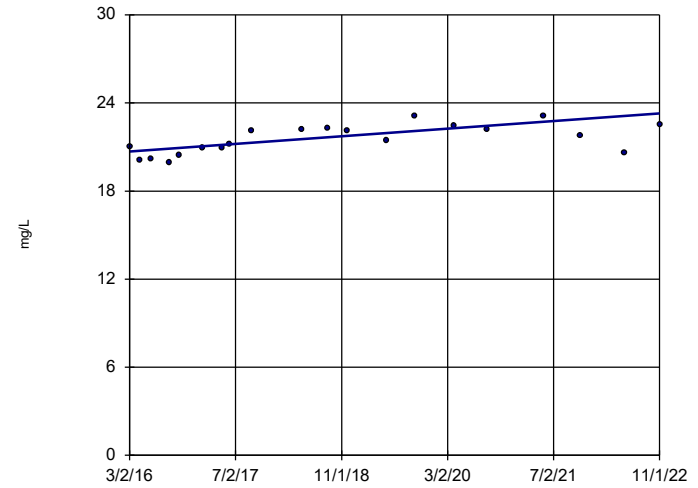


n = 20
 Slope = -0.2594
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

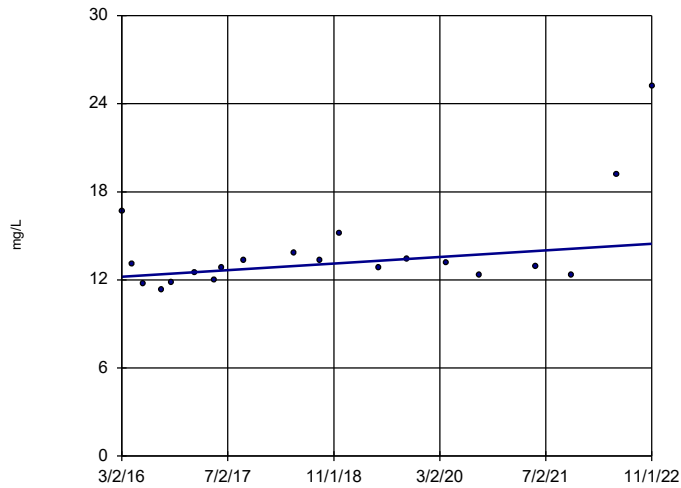


n = 20
 Slope = 0.3866
 units per year.
 Mann-Kendall
 statistic = 102
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

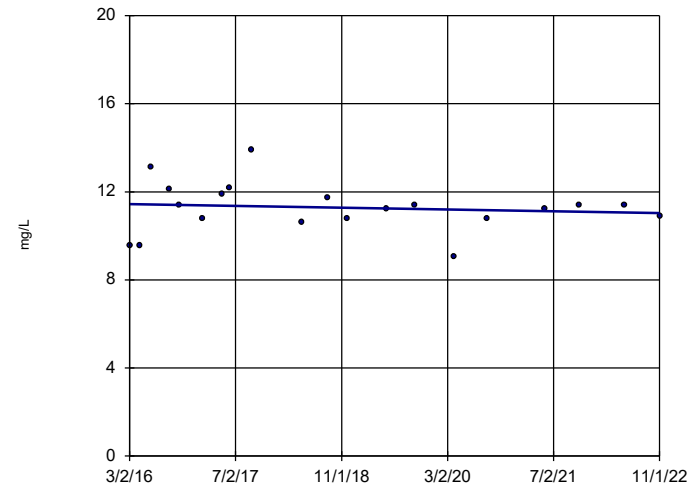


n = 20
 Slope = 0.3352
 units per year.
 Mann-Kendall
 statistic = 55
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

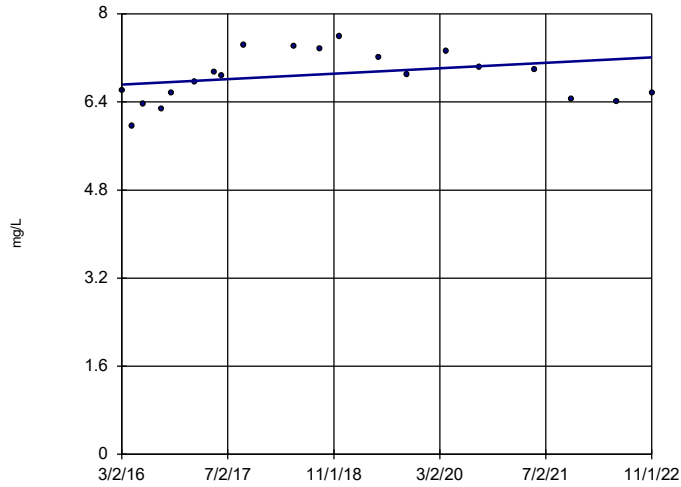


n = 20
 Slope = -0.06003
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-15

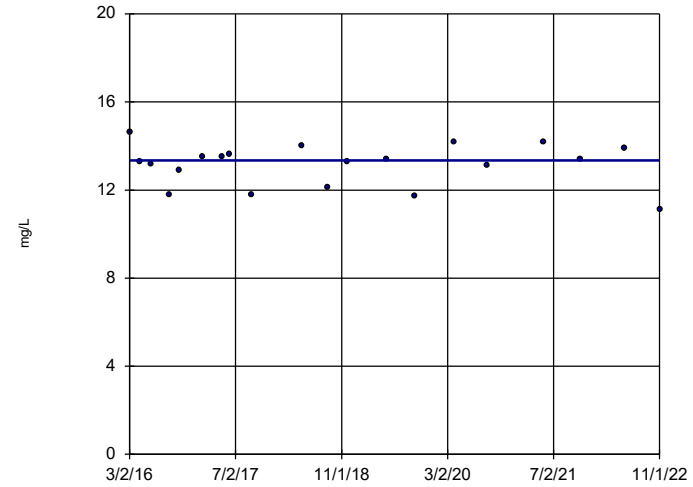


n = 20
 Slope = 0.07367
 units per year.
 Mann-Kendall
 statistic = 33
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

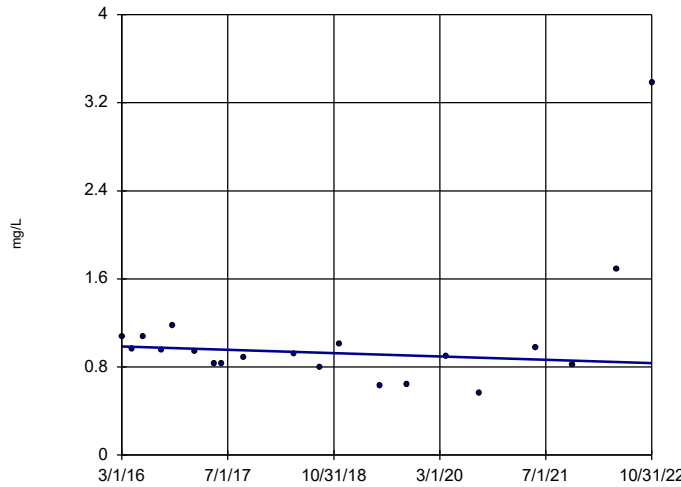


n = 20
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-4

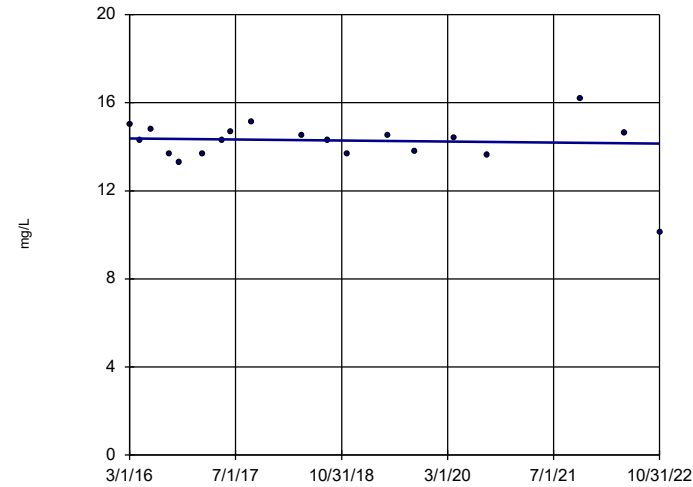


n = 20
 Slope = -0.02274
 units per year.
 Mann-Kendall
 statistic = -30
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-5

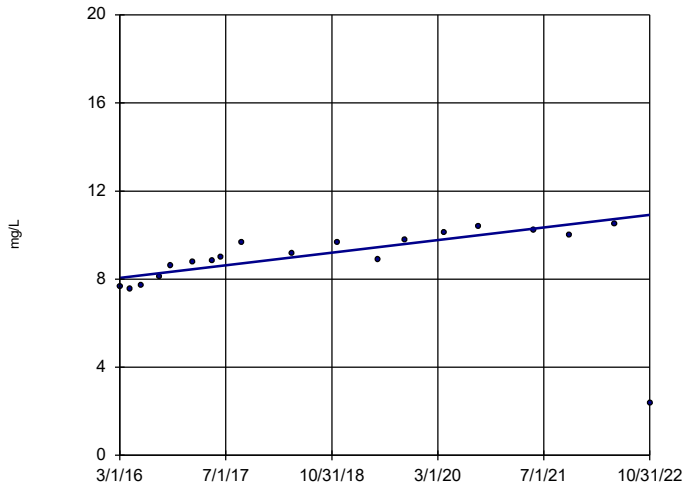


n = 19
 Slope = -0.03352
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:04 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

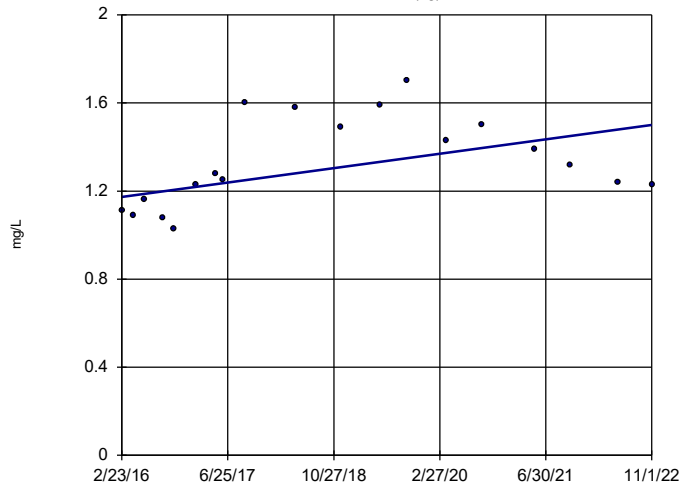
Sen's Slope Estimator

BY-AP-MW-7



Sen's Slope Estimator

BY-UP-MW-2 (bg)

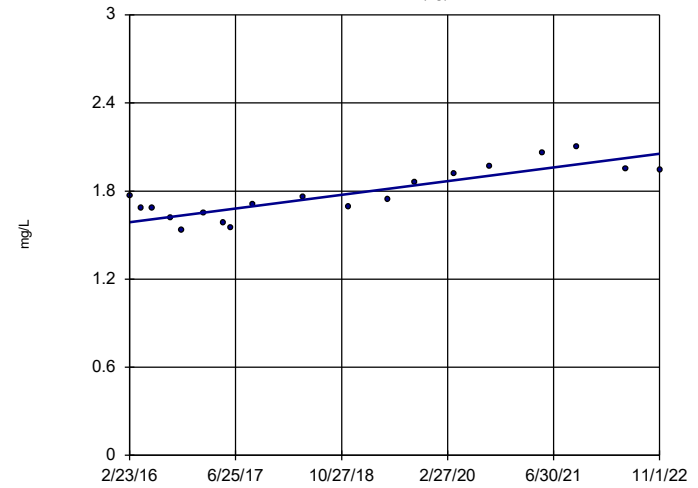


n = 19
 Slope = 0.04873
 units per year.
 Mann-Kendall
 statistic = 50
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-3 (bg)

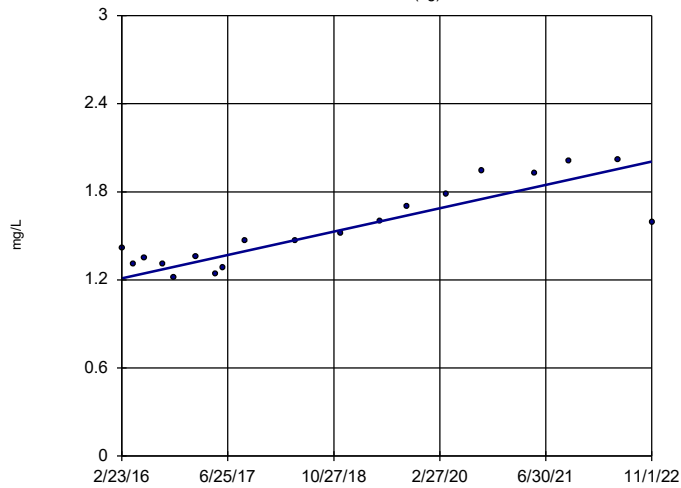


n = 19
 Slope = 0.06981
 units per year.
 Mann-Kendall
 statistic = 96
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-4 (bg)

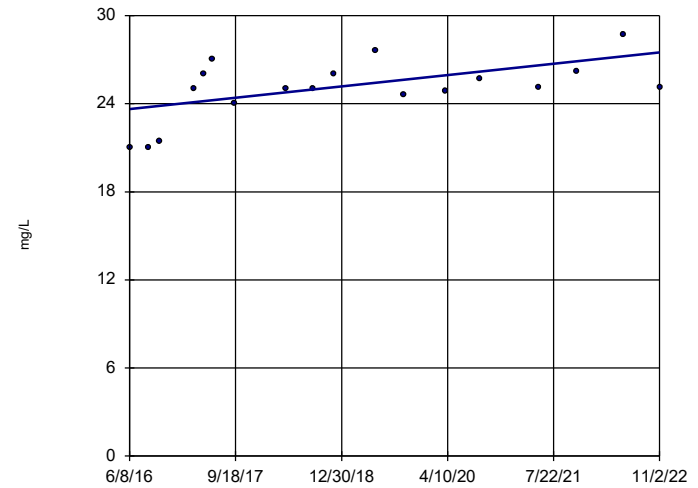


n = 19
 Slope = 0.119
 units per year.
 Mann-Kendall
 statistic = 115
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-1

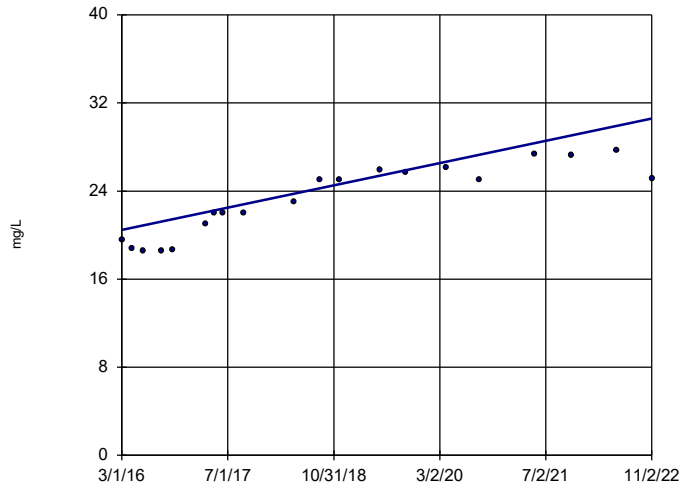


n = 18
 Slope = 0.605
 units per year.
 Mann-Kendall
 statistic = 67
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

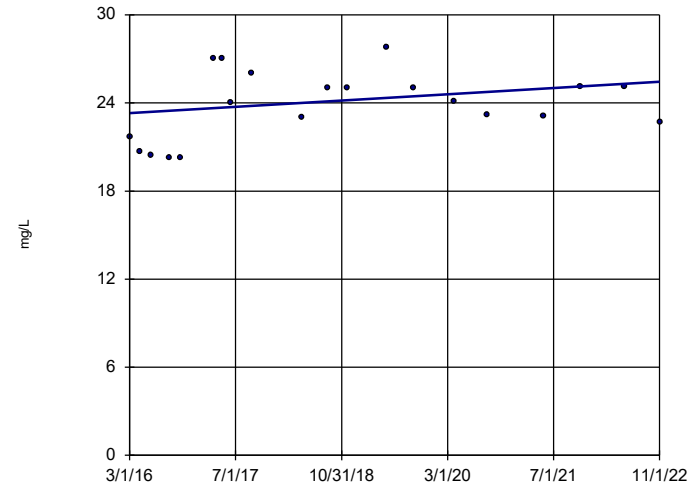


n = 20
 Slope = 1.516
 units per year.
 Mann-Kendall
 statistic = 146
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

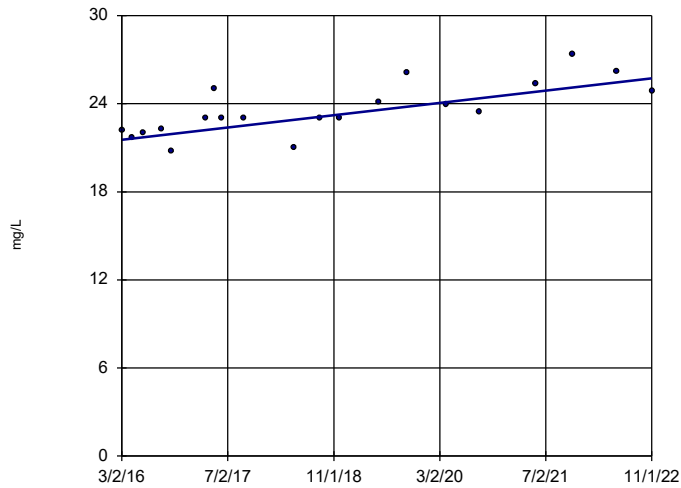


n = 20
 Slope = 0.3194
 units per year.
 Mann-Kendall
 statistic = 34
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

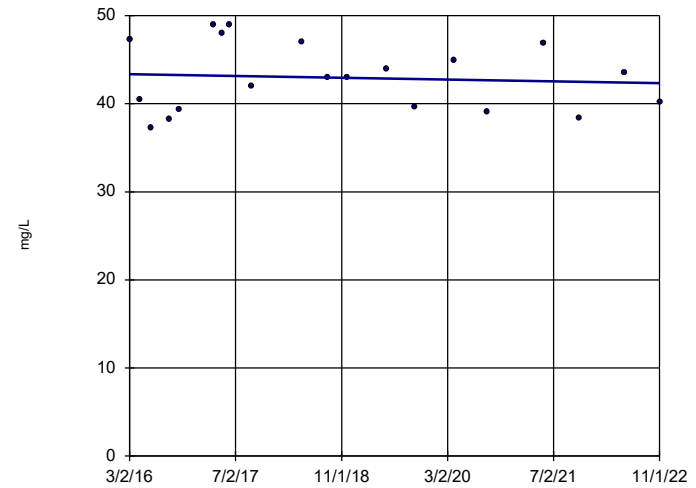


n = 20
 Slope = 0.6274
 units per year.
 Mann-Kendall
 statistic = 114
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

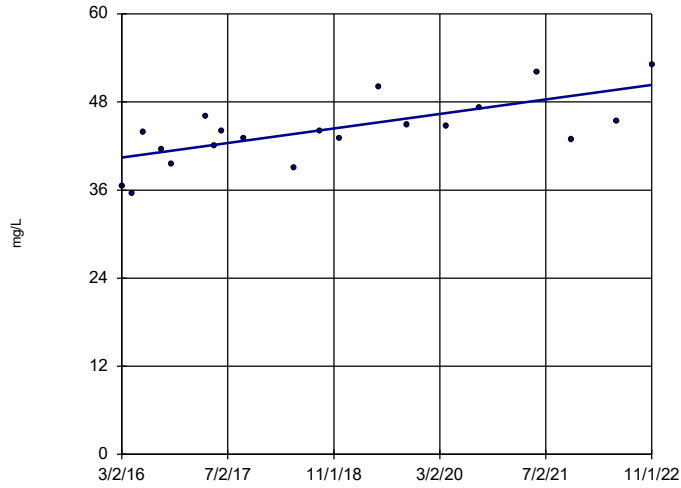


n = 20
 Slope = -0.1529
 units per year.
 Mann-Kendall
 statistic = -12
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

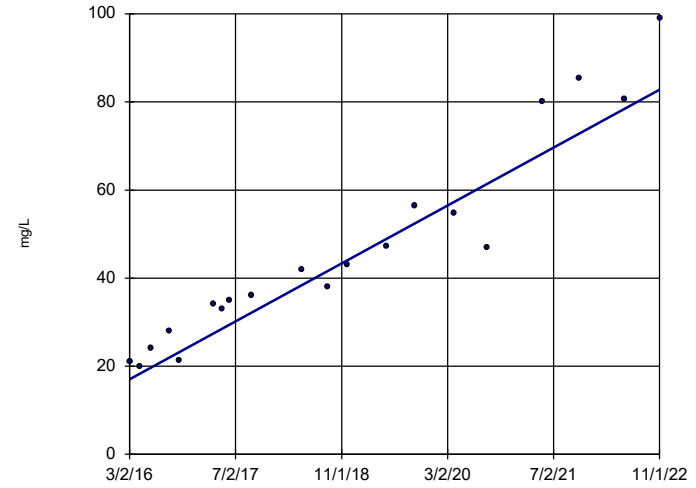


n = 20
 Slope = 1.483
 units per year.
 Mann-Kendall
 statistic = 102
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-15

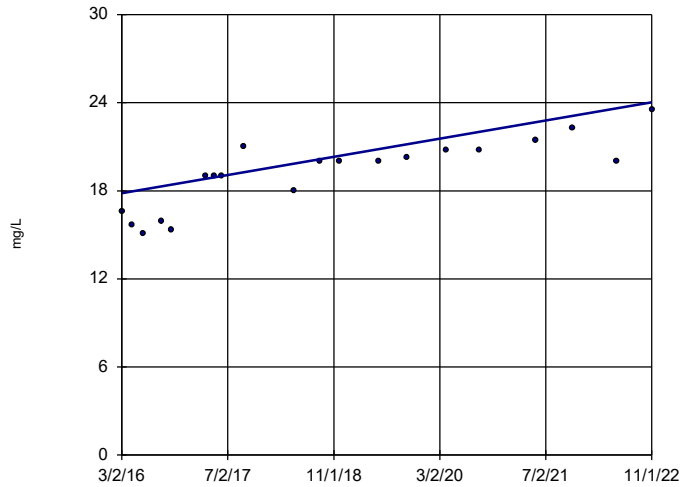


n = 20
 Slope = 9.86
 units per year.
 Mann-Kendall
 statistic = 170
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

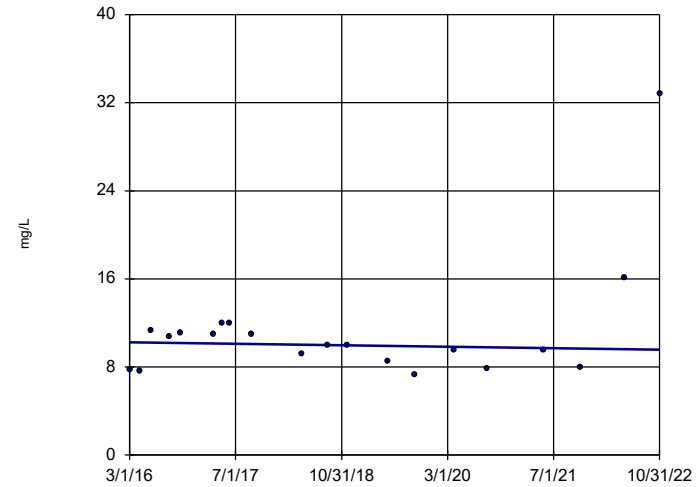


n = 20
 Slope = 0.926
 units per year.
 Mann-Kendall
 statistic = 134
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-4

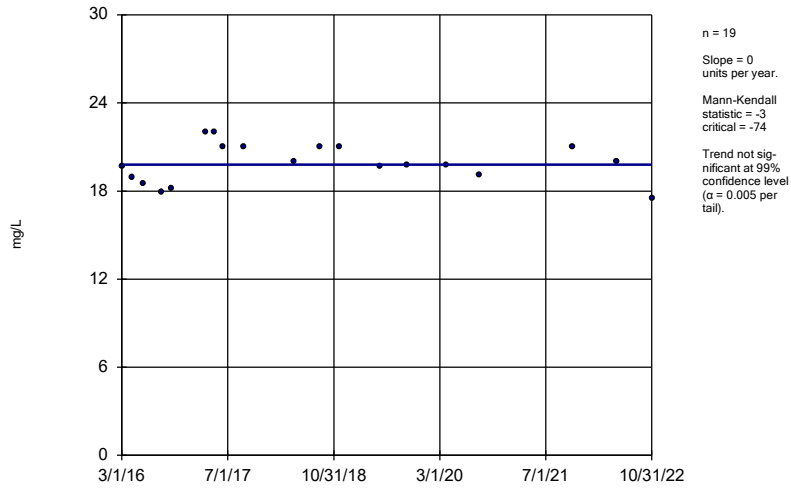


n = 20
 Slope = -0.09927
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

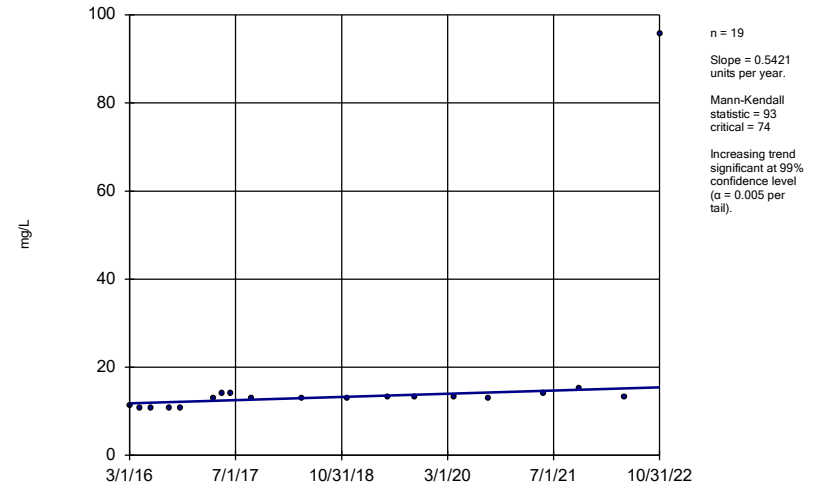
BY-AP-MW-5



Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

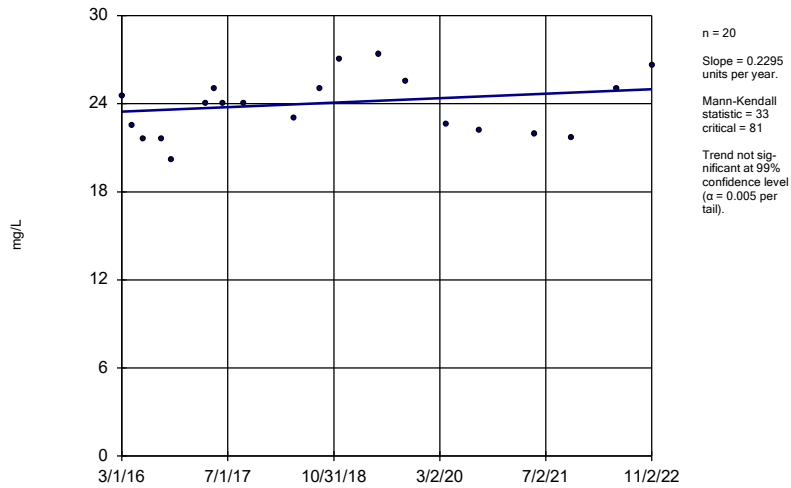
BY-AP-MW-7



Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

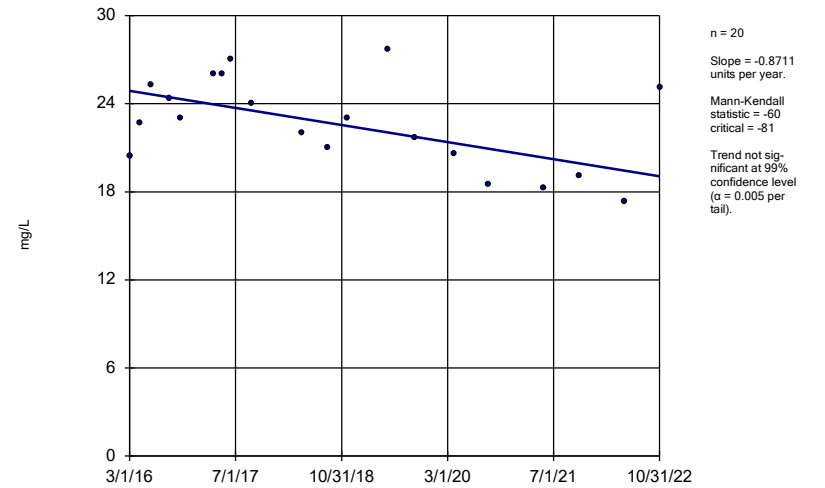
BY-AP-MW-8



Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

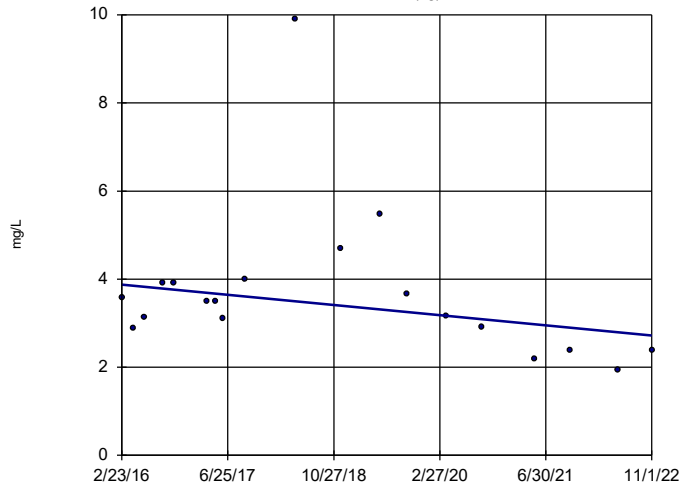
BY-AP-MW-9



Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-1 (bg)

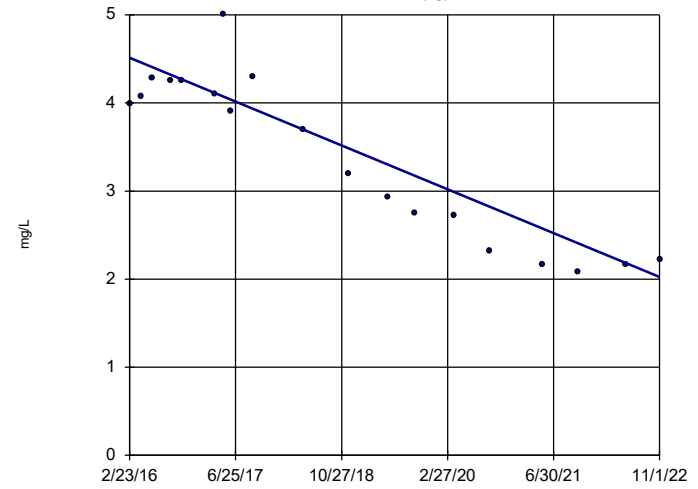


n = 19
 Slope = -0.1727
 units per year.
 Mann-Kendall
 statistic = -47
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-2 (bg)

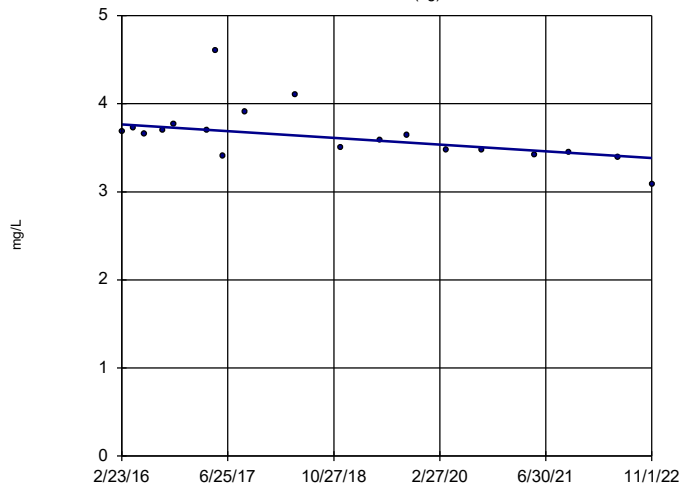


n = 19
 Slope = -0.3719
 units per year.
 Mann-Kendall
 statistic = -116
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-3 (bg)

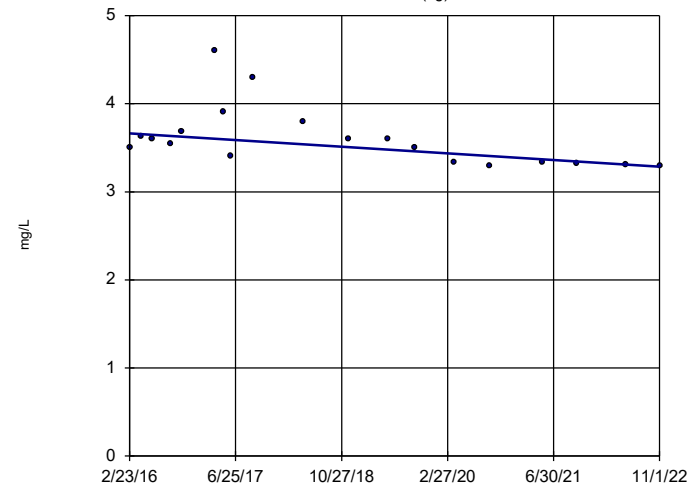


n = 19
 Slope = -0.05707
 units per year.
 Mann-Kendall
 statistic = -87
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-4 (bg)

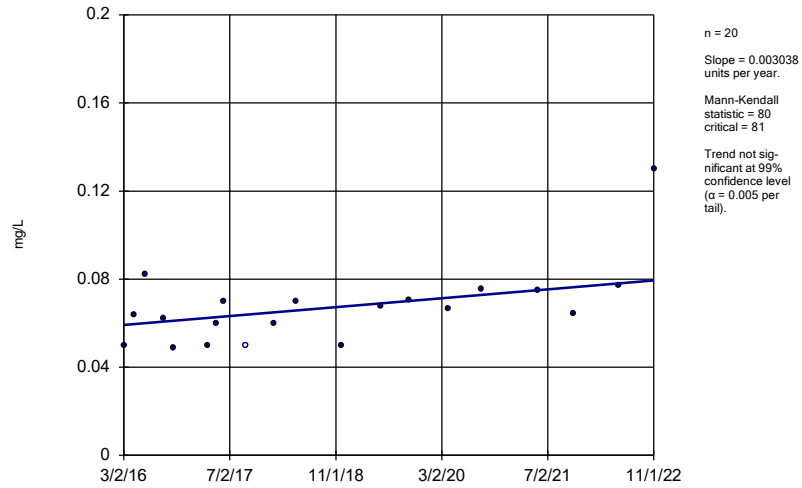


n = 19
 Slope = -0.05635
 units per year.
 Mann-Kendall
 statistic = -85
 critical = -74
 Decreasing trend
 significant at 99%
 confidence level
 (alpha = 0.005 per
 tail).

Constituent: Chloride, Total Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

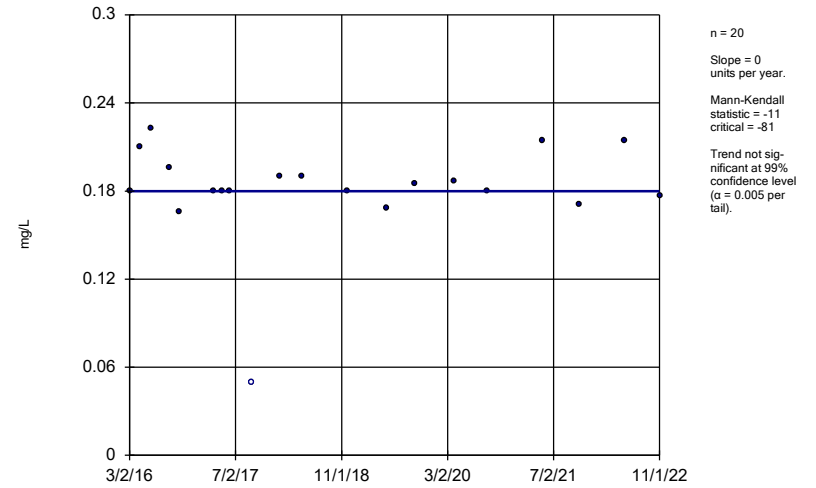
BY-AP-MW-13



Constituent: Fluoride, total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

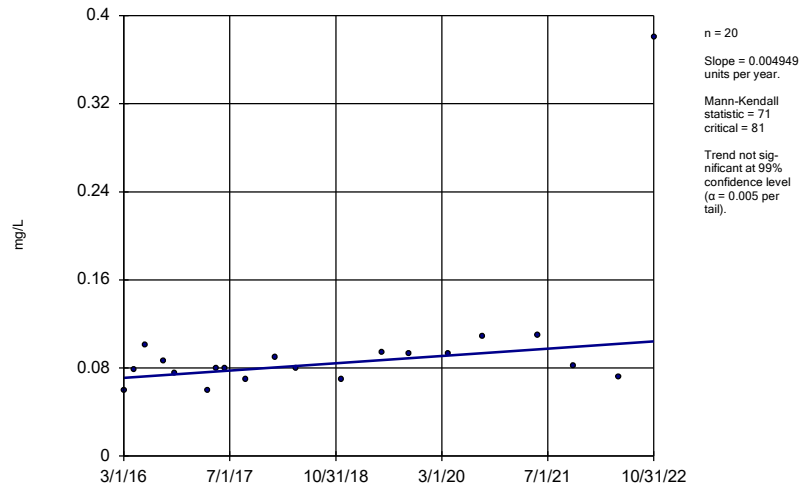
BY-AP-MW-15



Constituent: Fluoride, total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

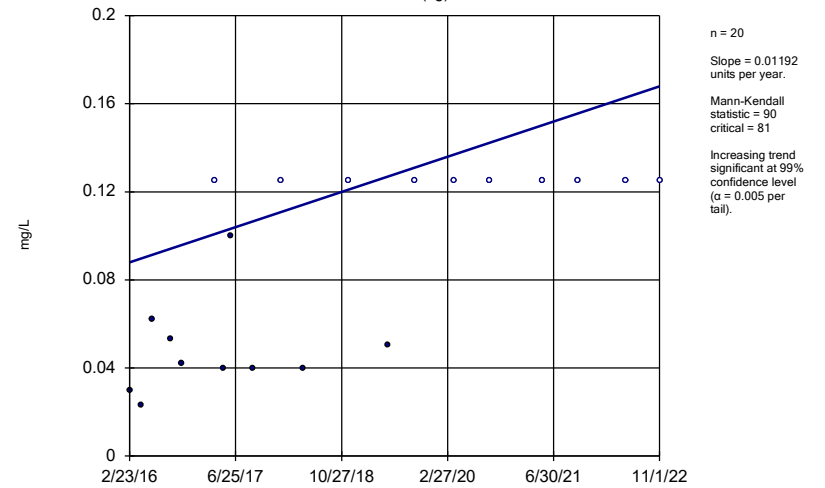
BY-AP-MW-7



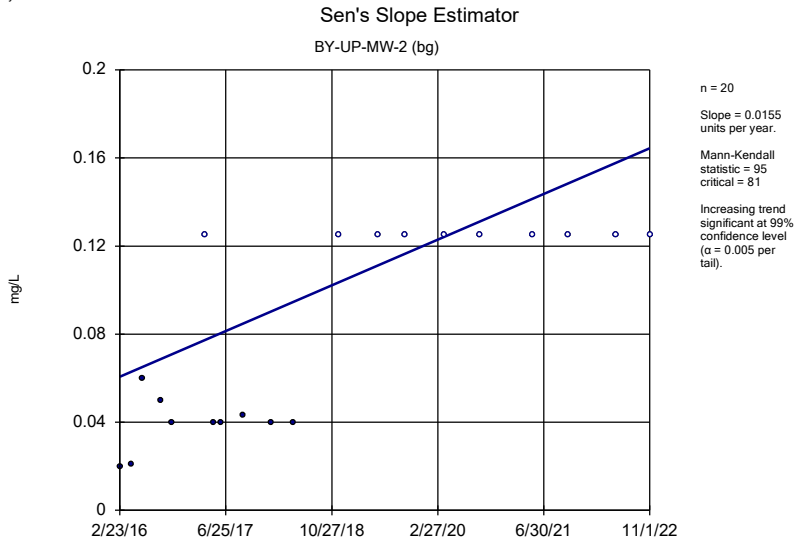
Constituent: Fluoride, total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

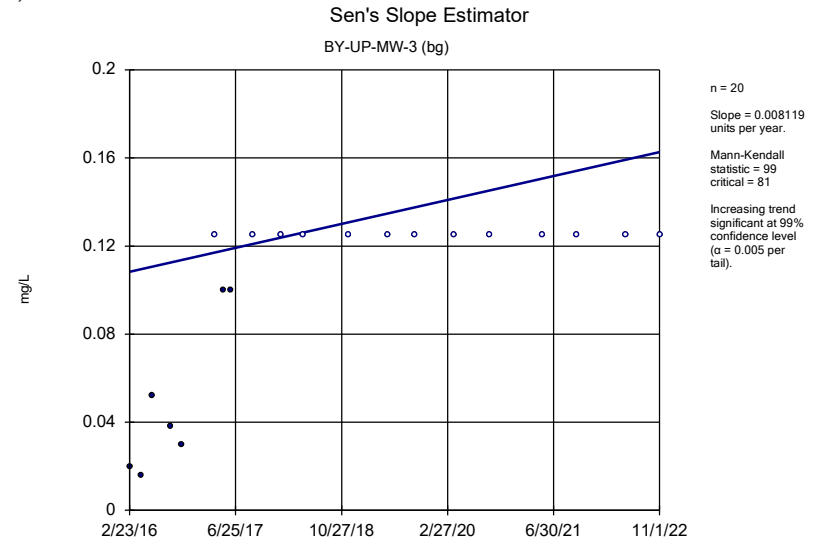
BY-UP-MW-1 (bg)



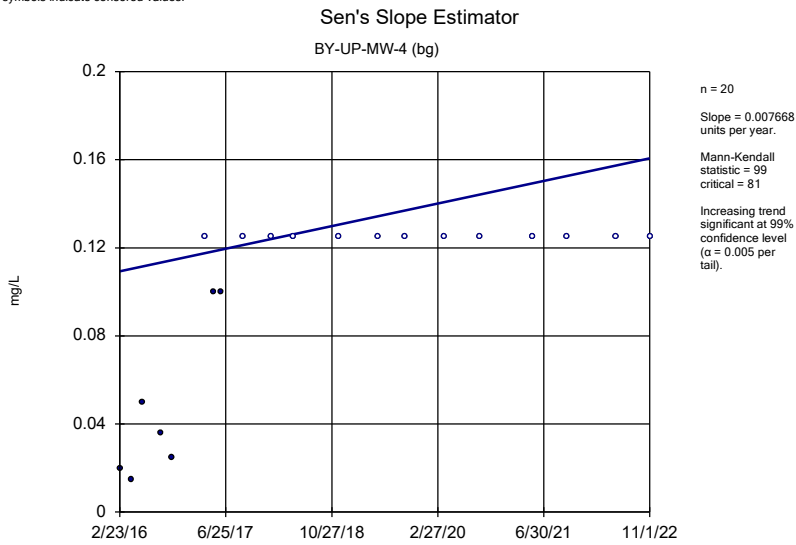
Constituent: Fluoride, total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond



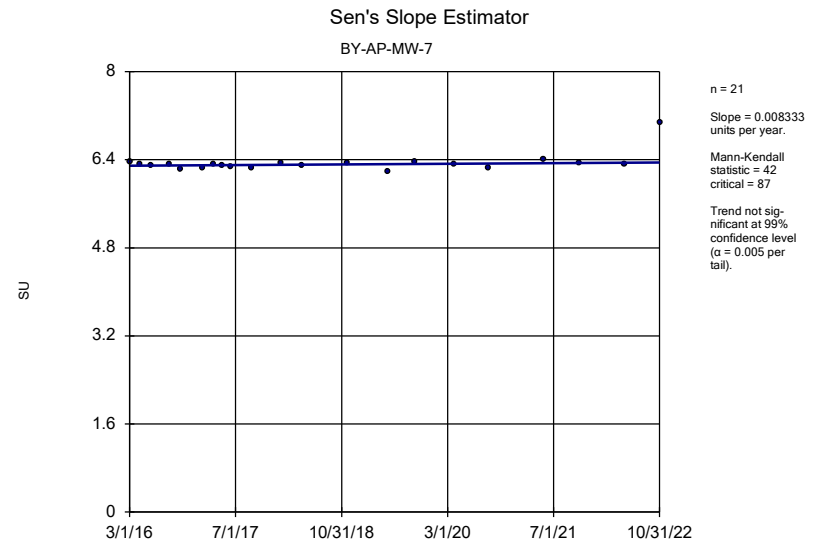
Constituent: Fluoride, total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond



Constituent: Fluoride, total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond



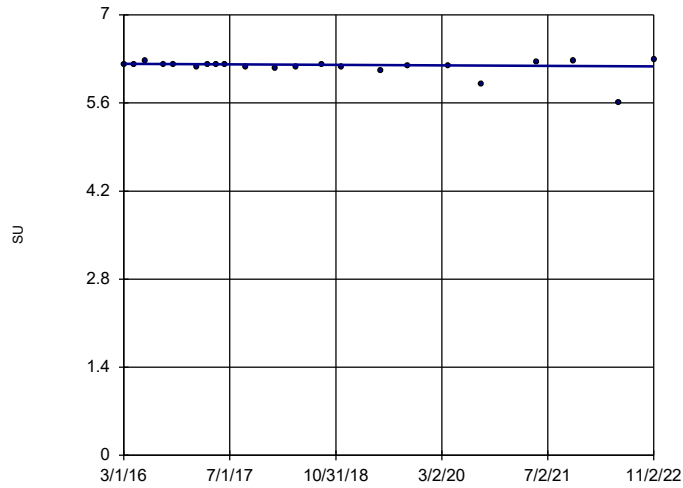
Constituent: Fluoride, total Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond



Constituent: pH, field Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-8

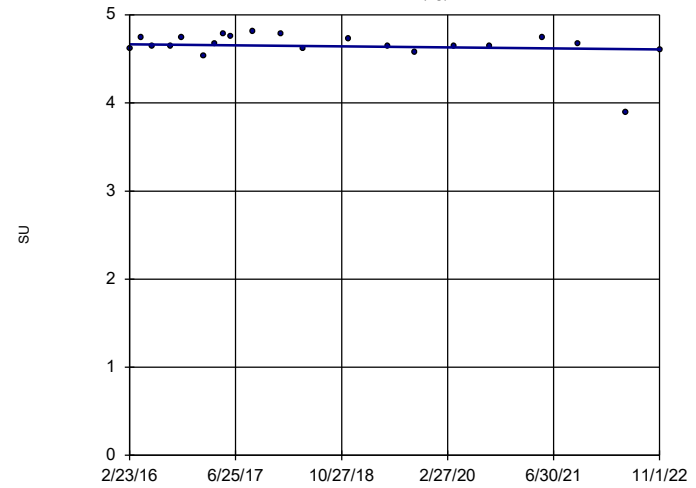


n = 22
 Slope = -0.006483
 units per year.
 Mann-Kendall
 statistic = -35
 critical = -92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-1 (bg)

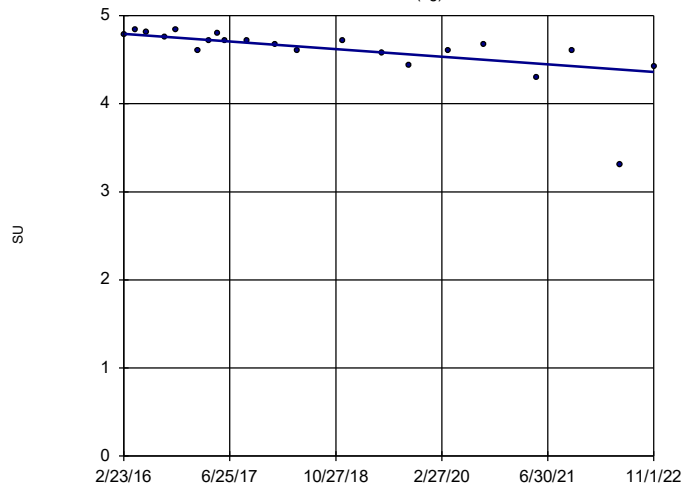


n = 21
 Slope = -0.008464
 units per year.
 Mann-Kendall
 statistic = -28
 critical = -87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-2 (bg)

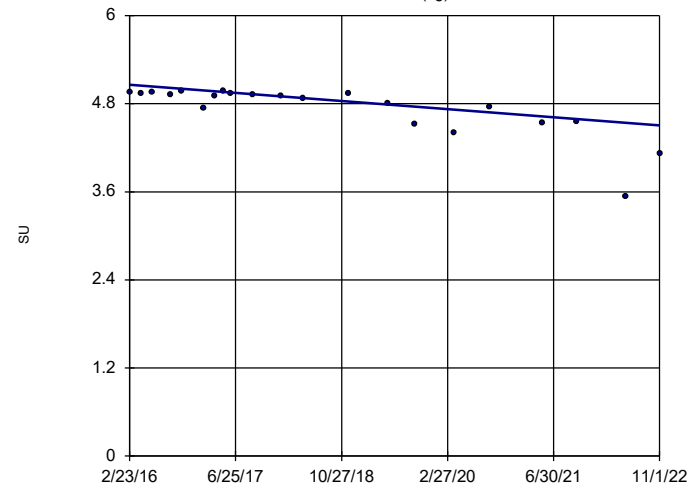


n = 21
 Slope = -0.06496
 units per year.
 Mann-Kendall
 statistic = -139
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-3 (bg)

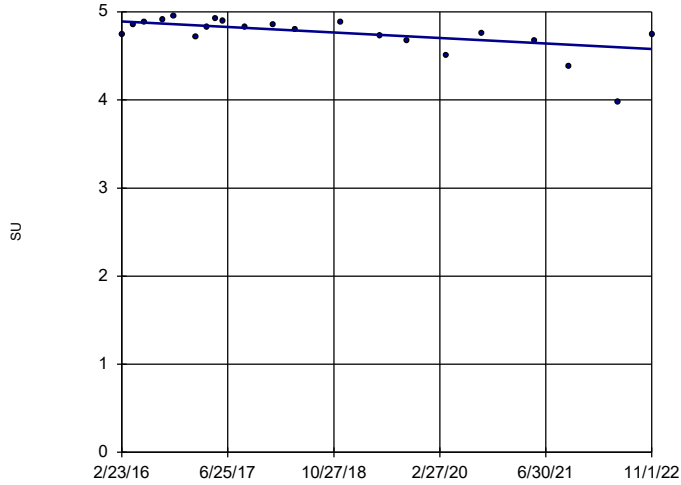


n = 21
 Slope = -0.08244
 units per year.
 Mann-Kendall
 statistic = -131
 critical = -87
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: pH, field Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

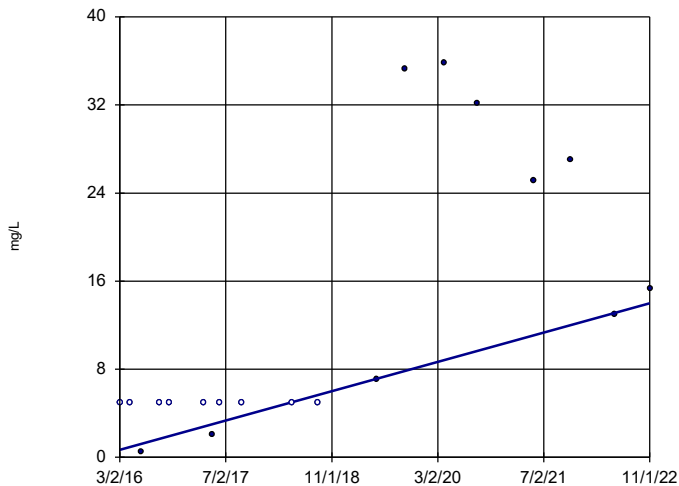
Sen's Slope Estimator

BY-UP-MW-4 (bg)



Sen's Slope Estimator

BY-AP-MW-12

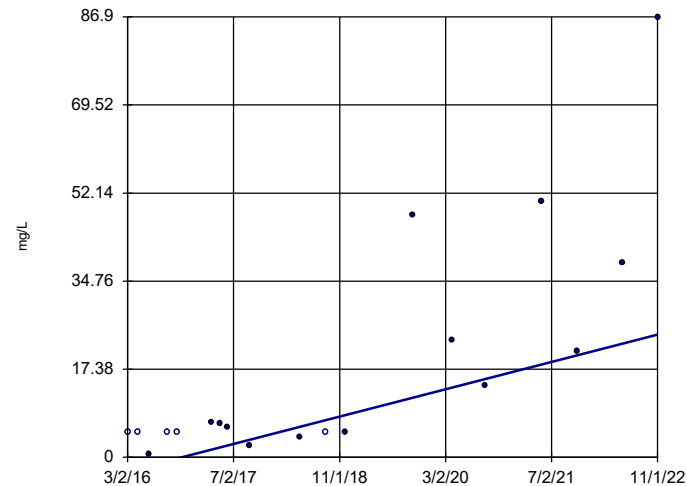


n = 19
Slope = 1.996
units per year.
Mann-Kendall
statistic = 85
critical = 74
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

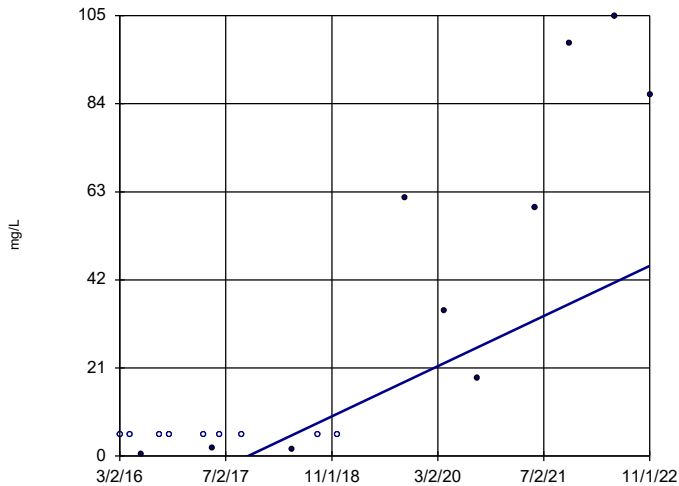


n = 19
Slope = 4.041
units per year.
Mann-Kendall
statistic = 85
critical = 74
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

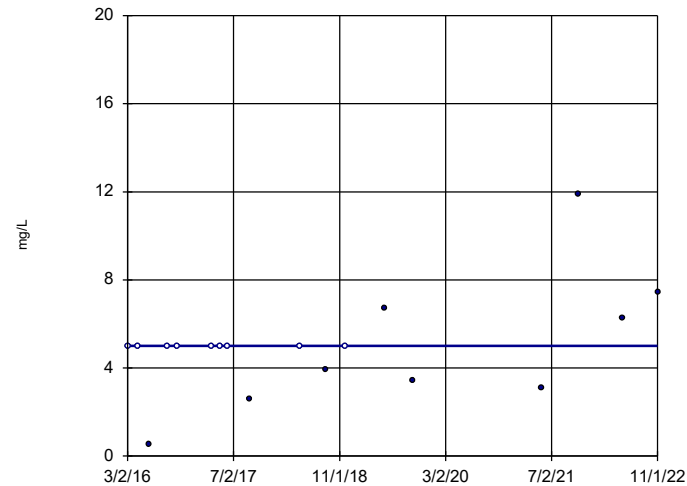


n = 19
Slope = 8.964
units per year.
Mann-Kendall
statistic = 93
critical = 74
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

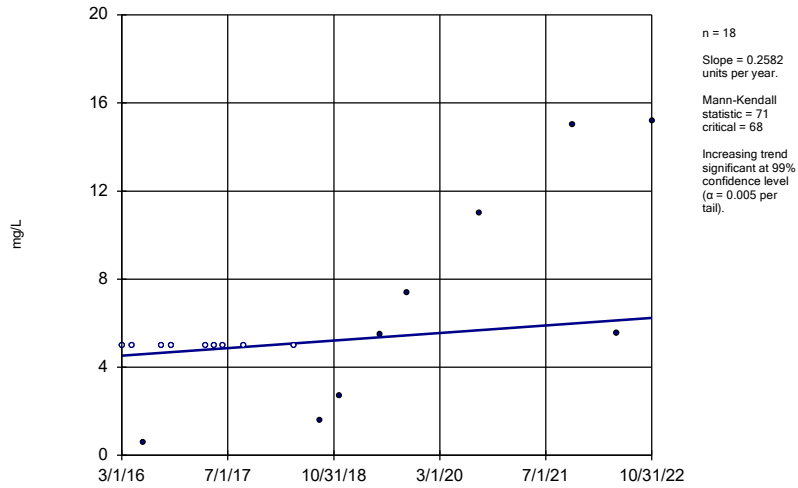


n = 18
Slope = 0
units per year.
Mann-Kendall
statistic = 31
critical = 68
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

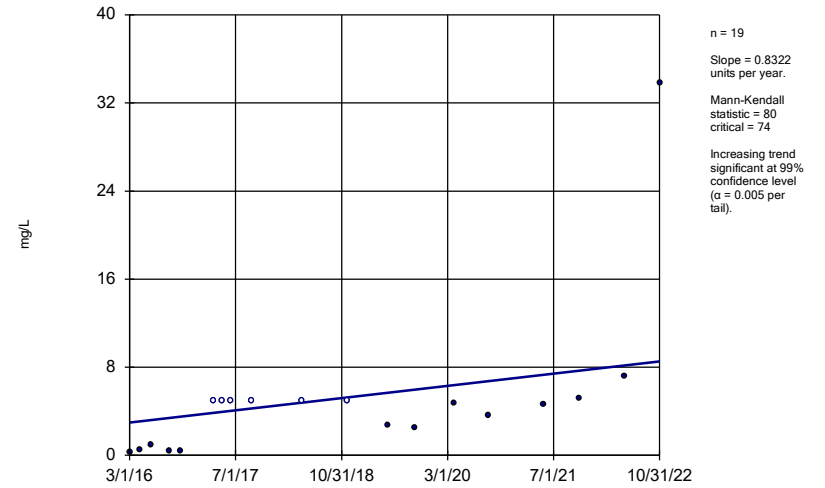
BY-AP-MW-5



Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

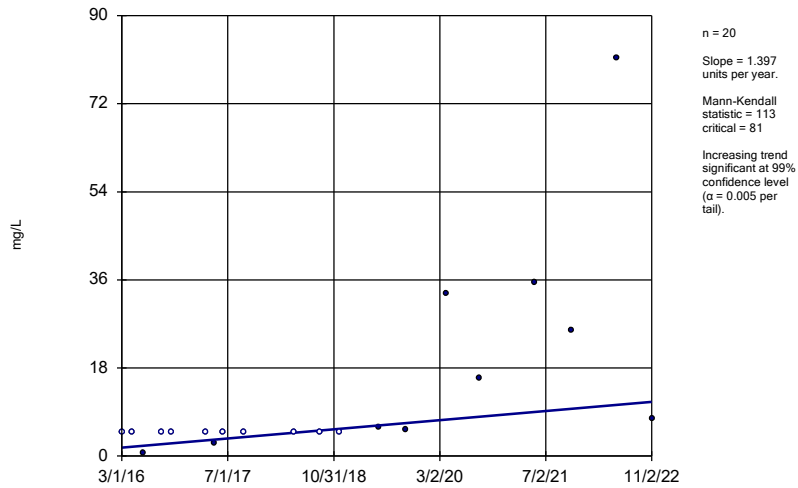
BY-AP-MW-7



Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

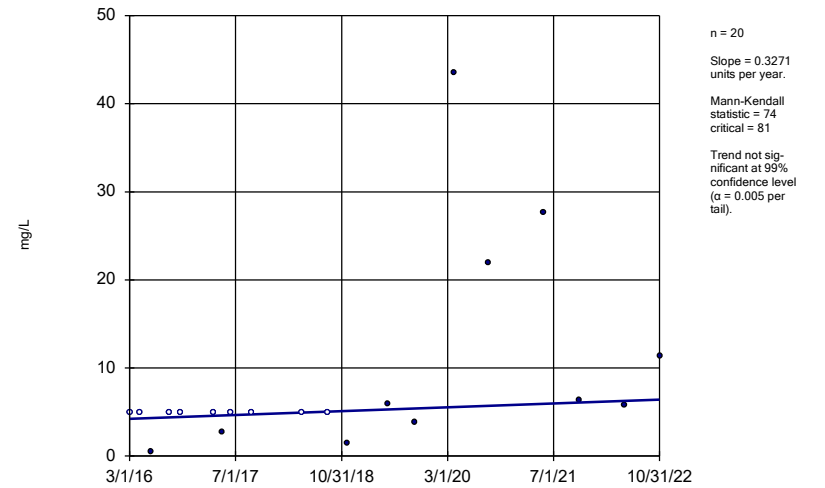
BY-AP-MW-8



Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

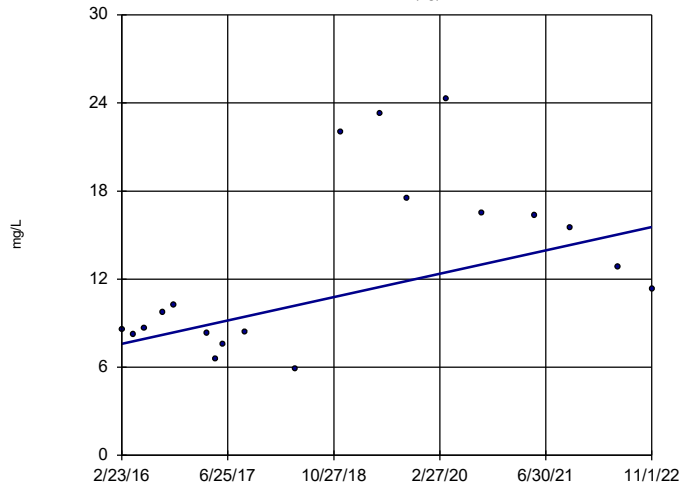
BY-AP-MW-9



Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

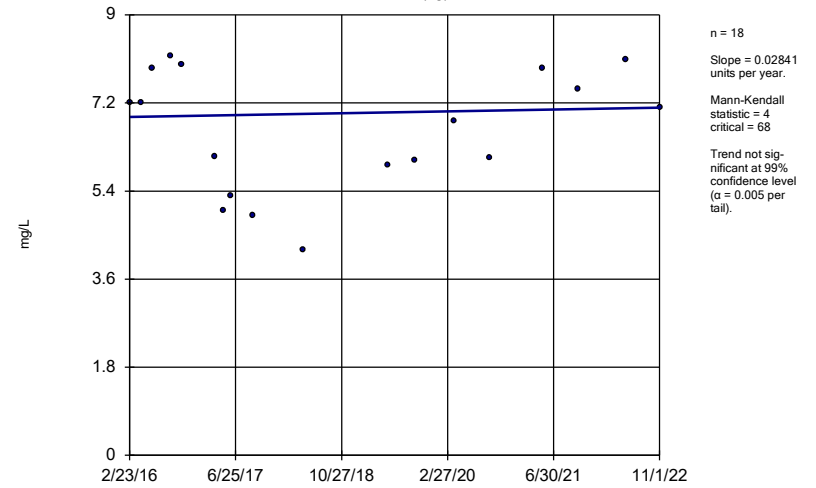
BY-UP-MW-1 (bg)



Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

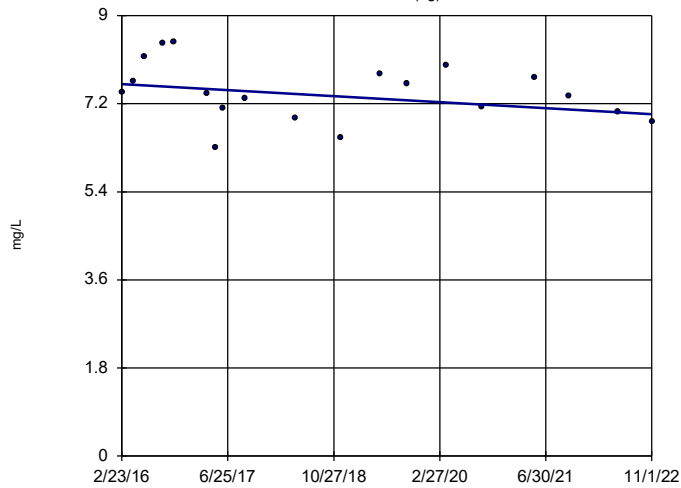
BY-UP-MW-2 (bg)



Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

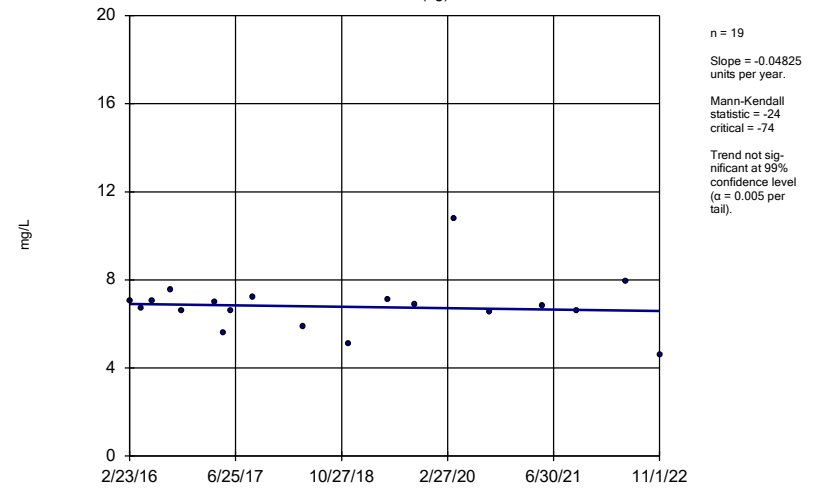
BY-UP-MW-3 (bg)



Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

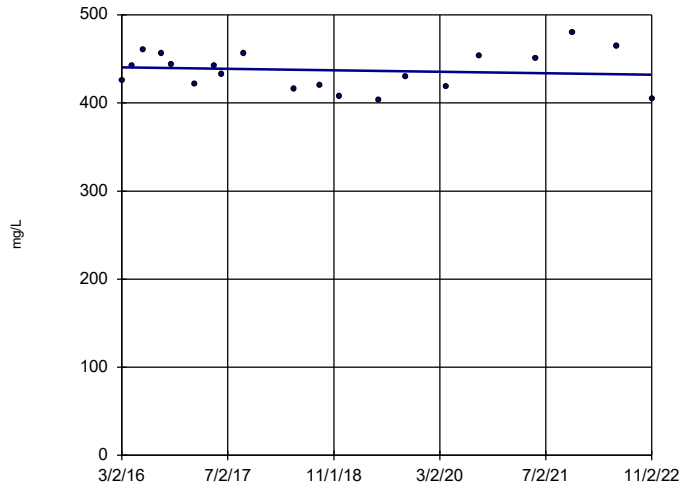
BY-UP-MW-4 (bg)



Constituent: Sulfate as SO4 Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-1

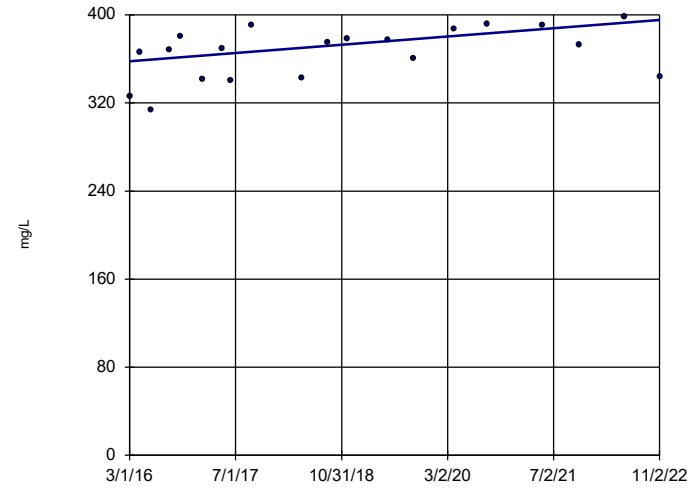


n = 20
 Slope = -1.283
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-10

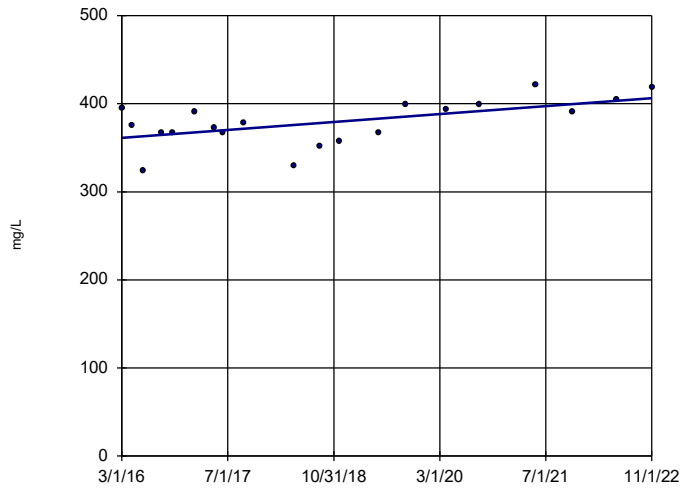


n = 20
 Slope = 5.606
 units per year.
 Mann-Kendall
 statistic = 79
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-11

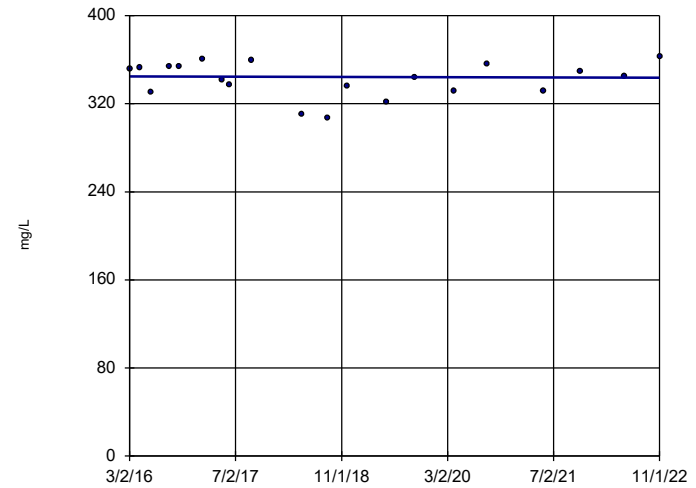


n = 20
 Slope = 6.77
 units per year.
 Mann-Kendall
 statistic = 71
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-12

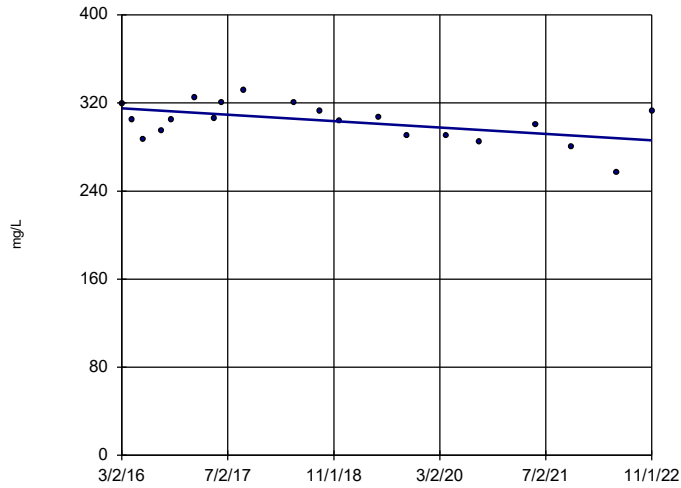


n = 20
 Slope = -0.1763
 units per year.
 Mann-Kendall
 statistic = -1
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-13

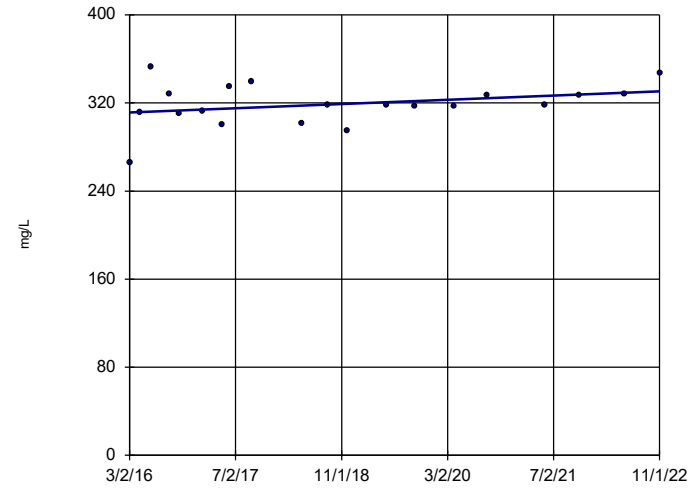


n = 20
 Slope = -4.349
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-14

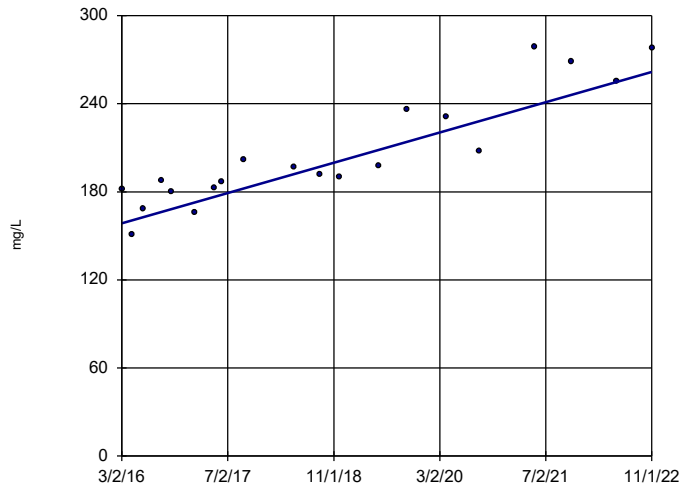


n = 20
 Slope = 2.87
 units per year.
 Mann-Kendall
 statistic = 50
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-15

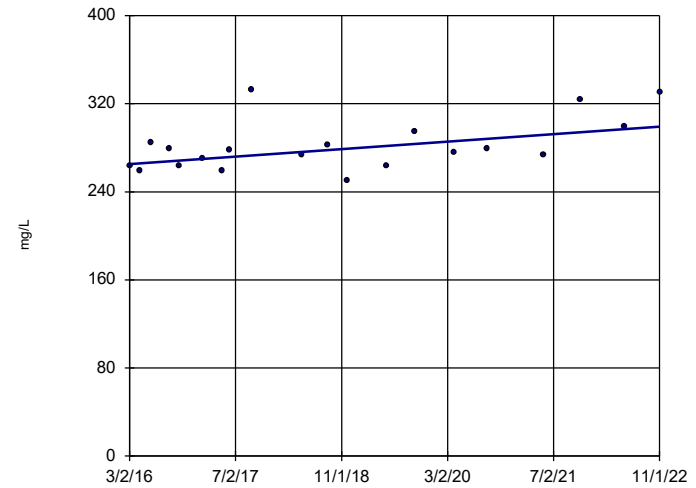


n = 20
 Slope = 15.47
 units per year.
 Mann-Kendall
 statistic = 142
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-16

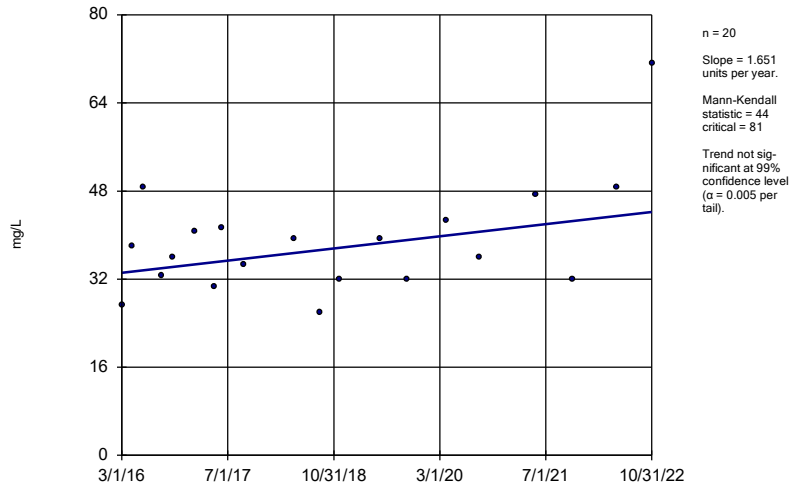


n = 20
 Slope = 5.134
 units per year.
 Mann-Kendall
 statistic = 66
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

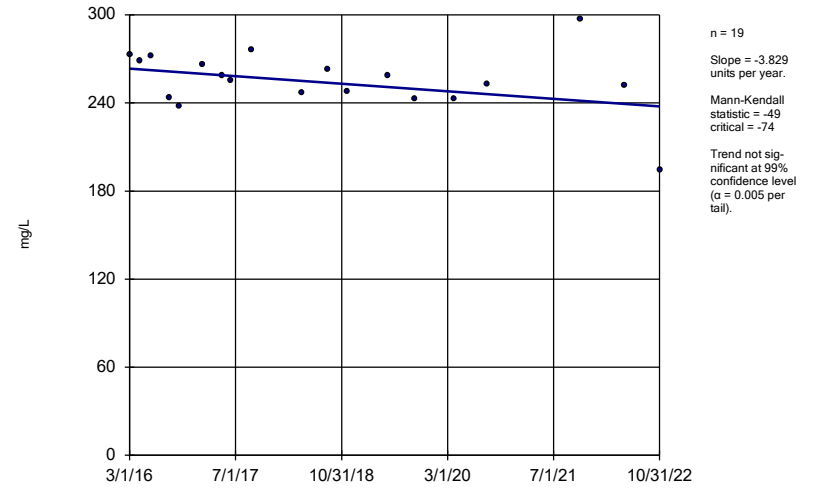
BY-AP-MW-4



Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

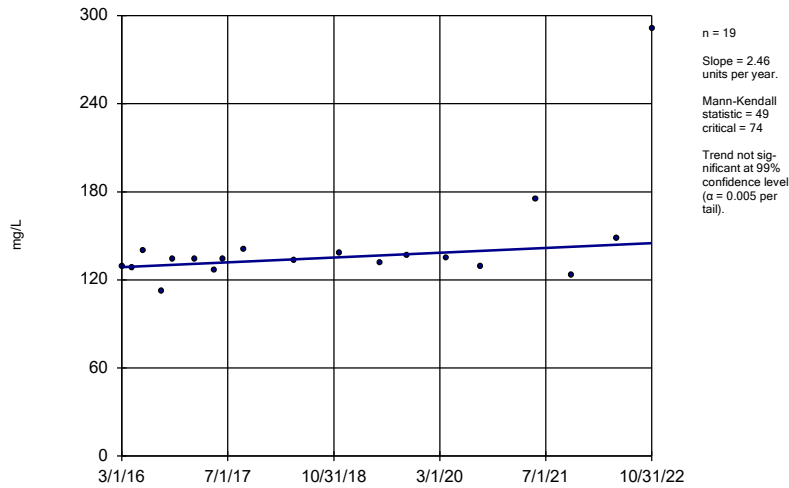
BY-AP-MW-5



Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

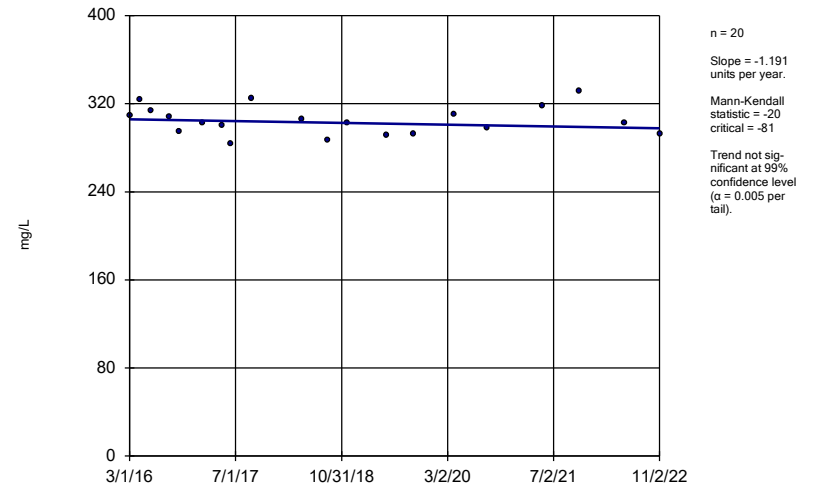
BY-AP-MW-7



Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

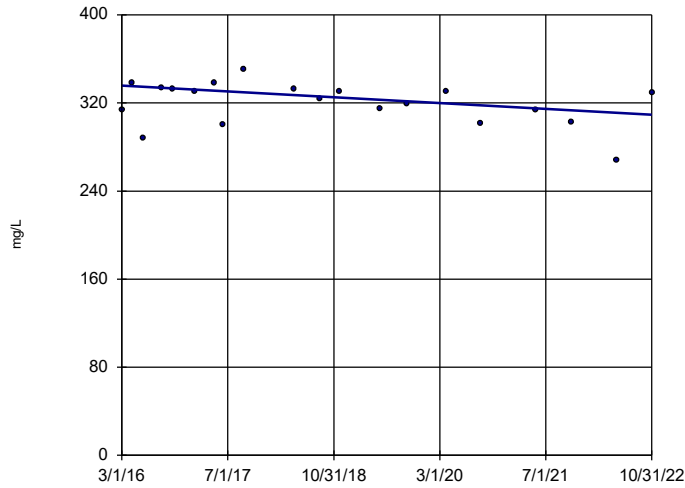
BY-AP-MW-8



Constituent: TDS Analysis Run 12/28/2022 5:05 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-AP-MW-9

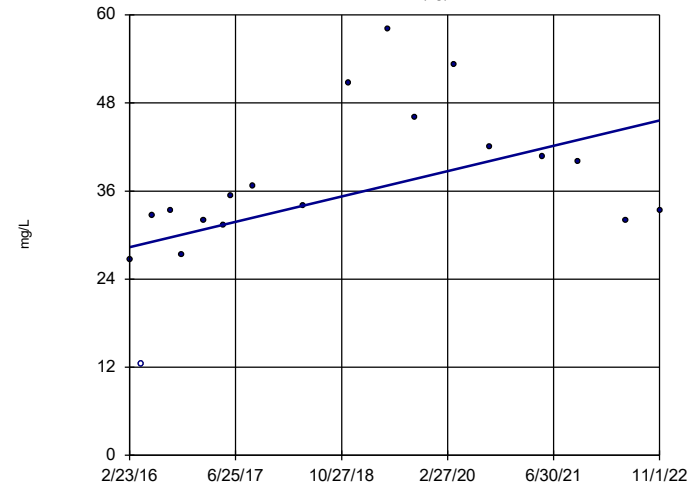


n = 20
 Slope = -3.957
 units per year.
 Mann-Kendall
 statistic = -58
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:06 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-1 (bg)

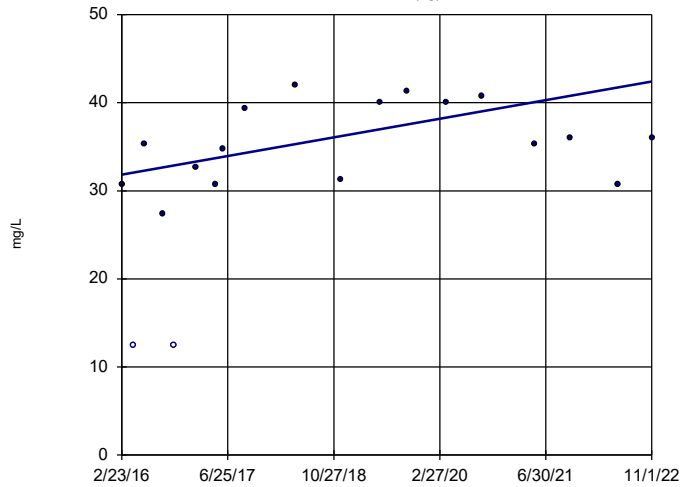


n = 19
 Slope = 2.576
 units per year.
 Mann-Kendall
 statistic = 69
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:06 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-2 (bg)

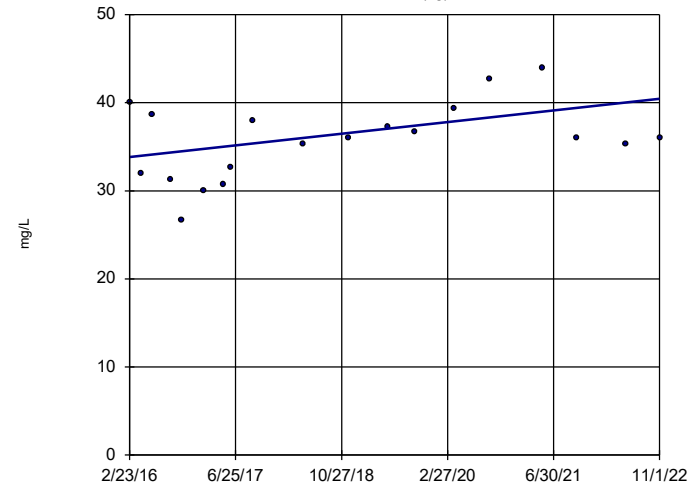


n = 19
 Slope = 1.577
 units per year.
 Mann-Kendall
 statistic = 62
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:06 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-3 (bg)

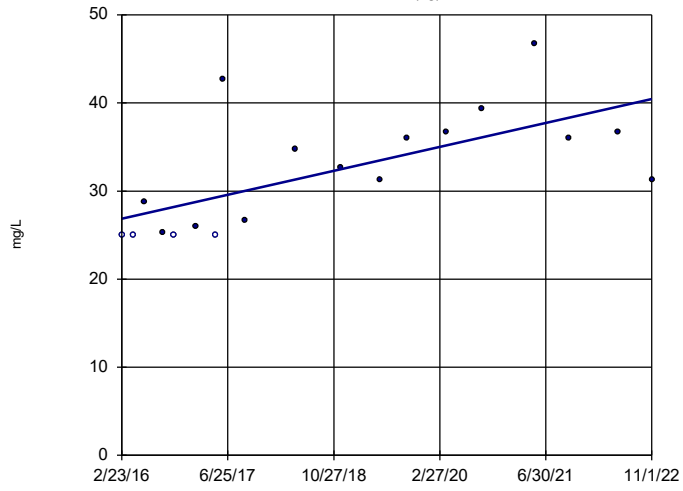


n = 19
 Slope = 0.9846
 units per year.
 Mann-Kendall
 statistic = 45
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 12/28/2022 5:06 PM View: Trend
 Plant Barry Client: Southern Company Data: Barry Ash Pond

Sen's Slope Estimator

BY-UP-MW-4 (bg)



n = 19
Slope = 2.028
units per year.
Mann-Kendall
statistic = 94
critical = 74
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: TDS Analysis Run 12/28/2022 5:06 PM View: Trend
Plant Barry Client: Southern Company Data: Barry Ash Pond

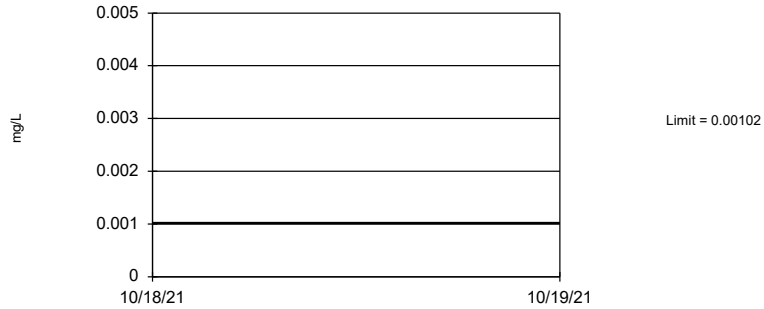
FIGURE G.

Upper Tolerance Limits - Summary Table

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 1/19/2022, 3:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq N</u>	<u>Bq Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	92.65	n/a	n/a	0.03056	NP Inter
Arsenic (mg/L)	n/a	0.0017	n/a	n/a	n/a	68	n/a	n/a	88.24	n/a	n/a	0.03056	NP Inter
Barium (mg/L)	n/a	0.183	n/a	n/a	n/a	68	n/a	n/a	0	n/a	n/a	0.03056	NP Inter
Beryllium (mg/L)	n/a	0.00102	n/a	n/a	n/a	66	n/a	n/a	93.94	n/a	n/a	0.03387	NP Inter
Cadmium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	68	n/a	n/a	83.82	n/a	n/a	0.03056	NP Inter
Cobalt (mg/L)	n/a	0.0157	n/a	n/a	n/a	67	n/a	n/a	58.21	n/a	n/a	0.03217	NP Inter
Combined Radium 226 + 228 (pCi/L)	n/a	3	n/a	n/a	n/a	60	n/a	n/a	0	n/a	n/a	0.04607	NP Inter
Fluoride, total (mg/L)	n/a	0.1	n/a	n/a	n/a	72	n/a	n/a	52.78	n/a	n/a	0.02489	NP Inter
Lead (mg/L)	n/a	0.00126	n/a	n/a	n/a	68	n/a	n/a	89.71	n/a	n/a	0.03056	NP Inter
Lithium (mg/L)	n/a	0.02	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Molybdenum (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter
Selenium (mg/L)	n/a	0.00102	n/a	n/a	n/a	68	n/a	n/a	98.53	n/a	n/a	0.03056	NP Inter
Thallium (mg/L)	n/a	0.0002	n/a	n/a	n/a	68	n/a	n/a	100	n/a	n/a	0.03056	NP Inter

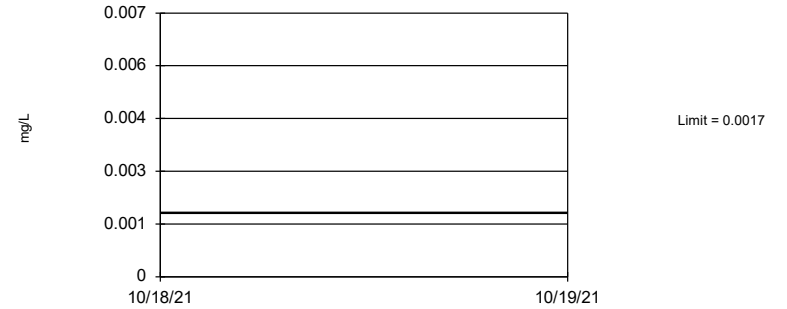
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 92.65% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Antimony Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

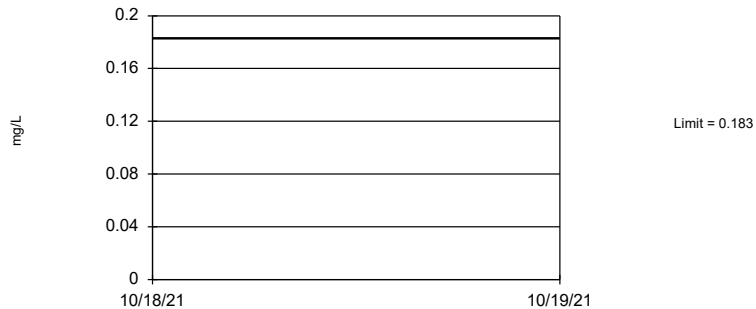
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 88.24% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Arsenic Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Barium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

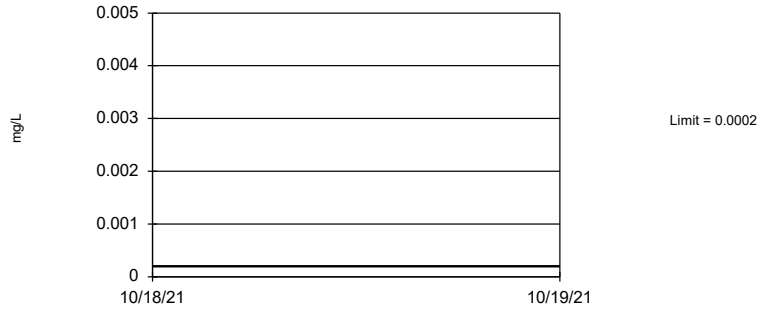
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 66 background values. 93.94% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03387.

Constituent: Beryllium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 98.53% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Cadmium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 83.82% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Chromium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 67 background values. 58.21% NDs. 93.16% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03217.

Constituent: Cobalt Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

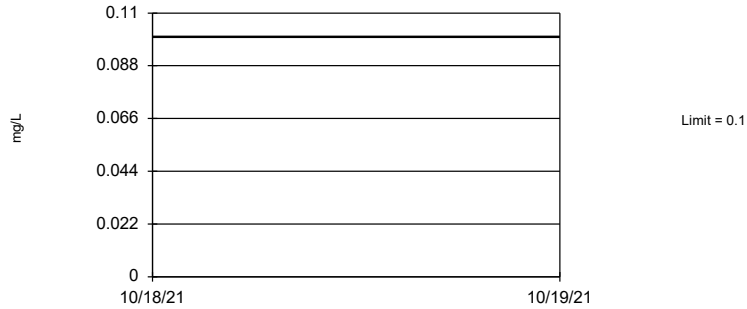
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 60 background values. 92.77% coverage at alpha=0.01; 95.12% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.04607.

Constituent: Combined Radium 226 + 228 Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

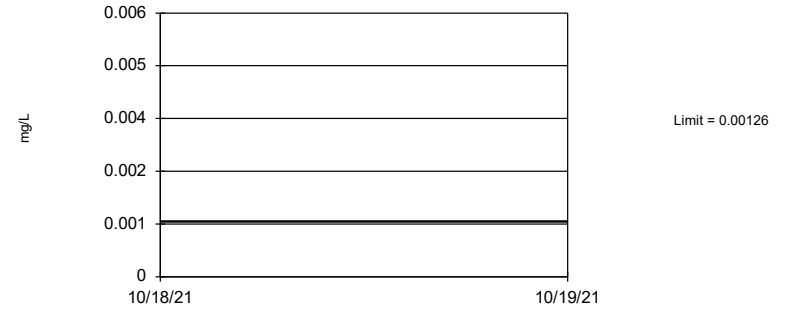
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 72 background values. 52.78% NDs. 93.95% coverage at alpha=0.01; 95.9% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.02489.

Constituent: Fluoride, total Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

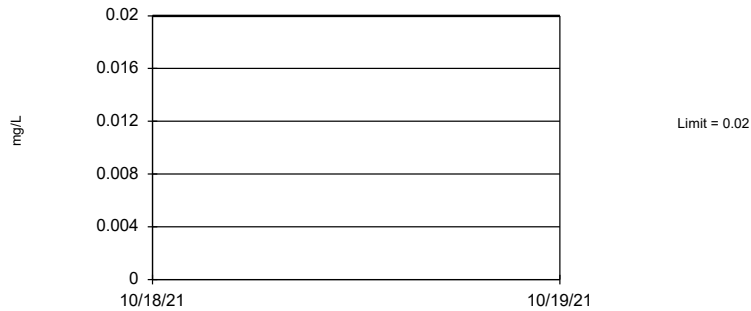
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 89.71% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Lead Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

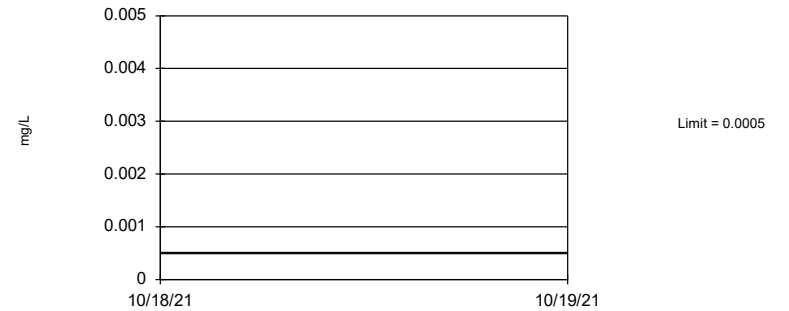
Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Lithium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

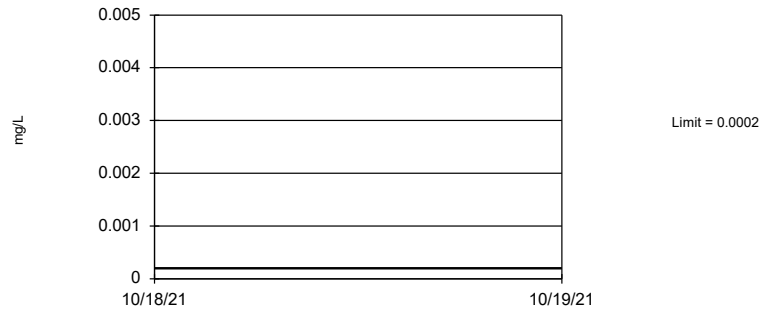
Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Mercury Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

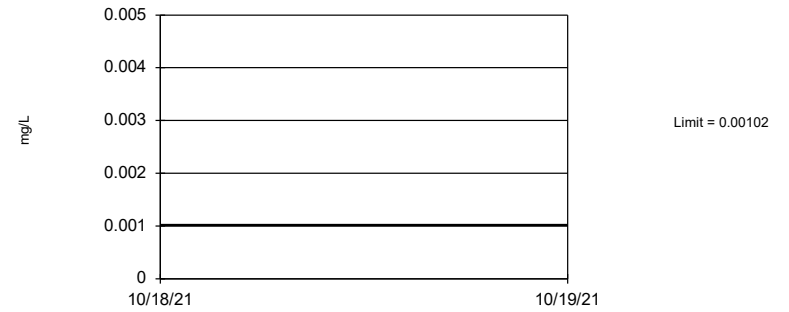
Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Molybdenum Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

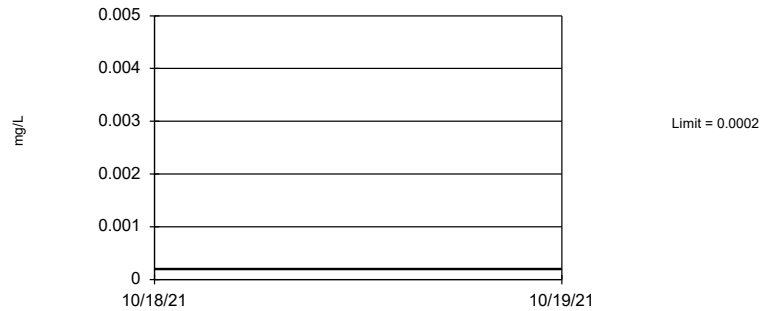
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 68 background values. 98.53% NDs. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Selenium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 93.55% coverage at alpha=0.01; 95.51% coverage at alpha=0.05; 99.02% coverage at alpha=0.5. Report alpha = 0.03056.

Constituent: Thallium Analysis Run 1/19/2022 3:43 PM View: Appendix IV - UTLs
Plant Barry Client: Southern Company Data: Barry Ash Pond

FIGURE H.

BARRY ASH POND GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.00102	0.006
Arsenic	mg/L	0.0017	0.01
Barium	mg/L	0.183	2
Beryllium	mg/L	0.00102	0.004
Cadmium	mg/L	0.0002	0.005
Chromium	mg/L	0.01	0.1
Cobalt	mg/L	0.0157	0.0157
Combined Radium-226/228	pCi/L	3	5
Fluoride	mg/L	0.1	4
Lead	mg/L	0.00126	0.015
Lithium	mg/L	0.02	0.04
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.0002	0.1
Selenium	mg/L	0.00102	0.05
Thallium	mg/L	0.0002	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

FIGURE I.

Confidence Interval Summary Table - Significant Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07695	0.05775	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07705	0.068	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01651	0.01392	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.0246	0.0215	0.01	Yes	8	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-13	0.0208	0.0128	0.01	Yes	8	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01813	0.01552	0.01	Yes	8	0	None	x^5	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01961	0.01614	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01522	0.0114	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-5	0.03528	0.02865	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-7	0.02356	0.01641	0.01	Yes	8	0	None	x^3	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06625	0.04722	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04651	0.03104	0.01	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-15	0.03696	0.03367	0.0157	Yes	8	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	BY-AP-MW-1	0.07695	0.05775	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-10	0.07705	0.068	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-11	0.01651	0.01392	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-12	0.0246	0.0215	0.01	Yes	8	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-13	0.0208	0.0128	0.01	Yes	8	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	BY-AP-MW-14	0.01813	0.01552	0.01	Yes	8	0	None	x^5	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-15	0.01961	0.01614	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-16	0.01522	0.0114	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-2	0.001772	0.001261	0.01	No	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-3	0.0002	0.000102	0.01	No	8	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-4	0.0002	0.000099	0.01	No	8	62.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-5	0.03528	0.02865	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-6	0.000203	0.0001	0.01	No	8	75	None	No	0.004	NP (NDs)
Arsenic (mg/L)	BY-AP-MW-7	0.02356	0.01641	0.01	Yes	8	0	None	x^3	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-8	0.06625	0.04722	0.01	Yes	8	0	None	No	0.01	Param.
Arsenic (mg/L)	BY-AP-MW-9	0.04651	0.03104	0.01	Yes	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-1	0.3379	0.2808	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-10	0.07493	0.06097	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-11	0.09905	0.0675	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-12	0.08641	0.07756	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-13	0.07811	0.06789	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-14	0.07131	0.06114	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-15	0.08153	0.06247	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-16	0.1006	0.08358	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-2	0.02699	0.02219	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-3	0.04429	0.03218	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-4	0.118	0.0131	2	No	8	0	None	No	0.004	NP (normality)
Barium (mg/L)	BY-AP-MW-5	0.1599	0.1264	2	No	8	0	None	x^2	0.01	Param.
Barium (mg/L)	BY-AP-MW-6	0.02912	0.0246	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-7	0.07358	0.05045	2	No	8	0	None	x^3	0.01	Param.
Barium (mg/L)	BY-AP-MW-8	0.1487	0.1368	2	No	8	0	None	No	0.01	Param.
Barium (mg/L)	BY-AP-MW-9	0.123	0.1125	2	No	8	0	None	No	0.01	Param.
Beryllium (mg/L)	BY-AP-MW-4	0.00102	0.000451	0.004	No	8	75	None	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-4	0.0002	0.000102	0.005	No	8	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	BY-AP-MW-6	0.00031	0.000068	0.005	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-1	0.00415	0.00223	0.1	No	8	0	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-10	0.01	0.00052	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-11	0.004013	0.002224	0.1	No	8	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-12	0.0056	0.00325	0.1	No	8	0	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-13	0.008802	0.006793	0.1	No	8	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-14	0.004911	0.003429	0.1	No	8	0	None	No	0.01	Param.
Chromium (mg/L)	BY-AP-MW-15	0.01	0.000361	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-16	0.01	0.00122	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-2	0.00102	0.000206	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-3	0.01	0.000919	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-4	0.01	0.00026	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-5	0.01	0.00096	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	BY-AP-MW-6	0.01	0.00023	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-7	0.01	0.000263	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-8	0.01	0.001	0.1	No	8	50	None	No	0.004	NP (normality)
Chromium (mg/L)	BY-AP-MW-9	0.01	0.000692	0.1	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-1	0.005	0.00091	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-10	0.005	0.00054	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-11	0.005	0.00105	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-12	0.004054	0.003134	0.0157	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-13	0.005	0.00113	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-14	0.005	0.0012	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-15	0.03696	0.03367	0.0157	Yes	8	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-16	0.0206	0.01093	0.0157	No	8	0	None	No	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-2	0.007566	0.006078	0.0157	No	8	0	None	x^5	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-3	0.005	0.000152	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-4	0.01393	0.002798	0.0157	No	8	12.5	None	ln(x)	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-5	0.005	0.0015	0.0157	No	8	62.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	BY-AP-MW-6	0.005	0.000588	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-7	0.02187	0.01467	0.0157	No	8	0	None	x^3	0.01	Param.
Cobalt (mg/L)	BY-AP-MW-8	0.005	0.00059	0.0157	No	8	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	BY-AP-MW-9	0.005	0.00069	0.0157	No	8	50	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-1	2.776	1.766	5	No	8	0	None	No	0.01	Param.

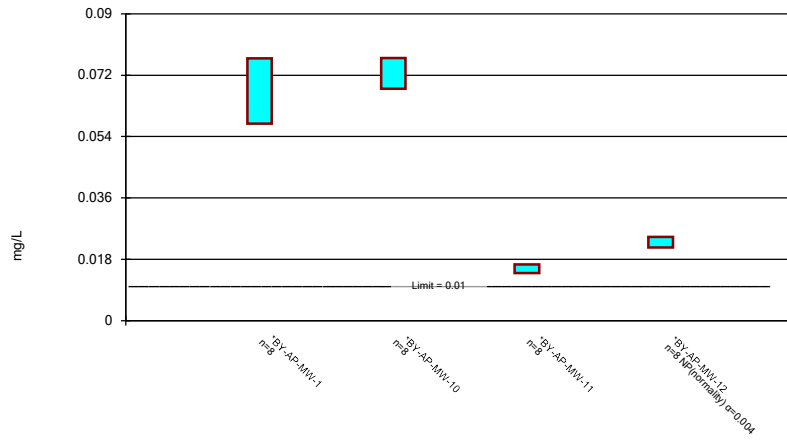
Confidence Interval Summary Table - All Results

Plant Barry Client: Southern Company Data: Barry Ash Pond Printed 12/28/2022, 5:21 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-10	1.35	0.4939	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-11	0.9643	0.297	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-12	1.765	0.7655	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-13	1.375	0.5503	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-14	1.124	0.4775	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-15	1.498	0.4505	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-16	1.652	0.3191	5	No	8	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-2	0.9172	0.2986	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-3	1.76	0.4302	5	No	8	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-4	0.9378	0.5738	5	No	8	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-5	2.159	0.7368	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-6	1.381	0.07705	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-7	1.166	0.343	5	No	8	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-8	1.046	0.4039	5	No	8	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	BY-AP-MW-9	1.665	0.5917	5	No	8	0	None	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-1	0.194	0.0665	4	No	8	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	BY-AP-MW-10	0.125	0.0573	4	No	8	62.5	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	BY-AP-MW-11	0.09511	0.06584	4	No	8	0	None	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-12	0.08766	0.06406	4	No	8	0	None	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-13	0.13	0.0641	4	No	8	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	BY-AP-MW-14	0.09409	0.06881	4	No	8	0	None	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-15	0.2057	0.1685	4	No	8	0	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-16	0.09845	0.06351	4	No	8	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-2	0.125	0.0711	4	No	8	87.5	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	BY-AP-MW-5	0.09551	0.06162	4	No	8	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-7	0.381	0.0724	4	No	8	0	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	BY-AP-MW-8	0.09361	0.06123	4	No	8	37.5	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	BY-AP-MW-9	0.08031	0.06534	4	No	8	12.5	None	No	0.01	Param.
Lead (mg/L)	BY-AP-MW-1	0.0002	0.000092	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-11	0.005	0.000078	0.015	No	8	50	None	No	0.004	NP (normality)
Lead (mg/L)	BY-AP-MW-12	0.000326	0.00018	0.015	No	8	62.5	None	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-13	0.0002	0.00015	0.015	No	8	75	None	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-14	0.005	0.0000764	0.015	No	8	50	None	No	0.004	NP (normality)
Lead (mg/L)	BY-AP-MW-16	0.000203	0.000191	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	BY-AP-MW-4	0.005	0.00007	0.015	No	8	50	None	No	0.004	NP (normality)
Lead (mg/L)	BY-AP-MW-6	0.006031	0.001342	0.015	No	8	0	None	ln(x)	0.01	Param.
Lead (mg/L)	BY-AP-MW-9	0.00108	0.000203	0.015	No	8	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	BY-AP-MW-11	0.02796	0.01086	0.04	No	8	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-15	0.02212	0.008726	0.04	No	8	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	BY-AP-MW-7	0.0882	0.0102	0.04	No	8	75	Kaplan-Meier	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-1	0.000203	0.00008	0.1	No	8	75	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-11	0.01	0.000972	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-12	0.01	0.000942	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-13	0.01	0.00043	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-14	0.01	0.00052	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-15	0.01	0.00171	0.1	No	8	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-16	0.000203	0.000136	0.1	No	8	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-5	0.01	0.00011	0.1	No	8	62.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	BY-AP-MW-6	0.01	0.00011	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-7	0.01	0.00018	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-8	0.01	0.00019	0.1	No	8	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	BY-AP-MW-9	0.01	0.000157	0.1	No	8	50	None	No	0.004	NP (normality)
Selenium (mg/L)	BY-AP-MW-13	0.00102	0.00056	0.05	No	8	75	None	No	0.004	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

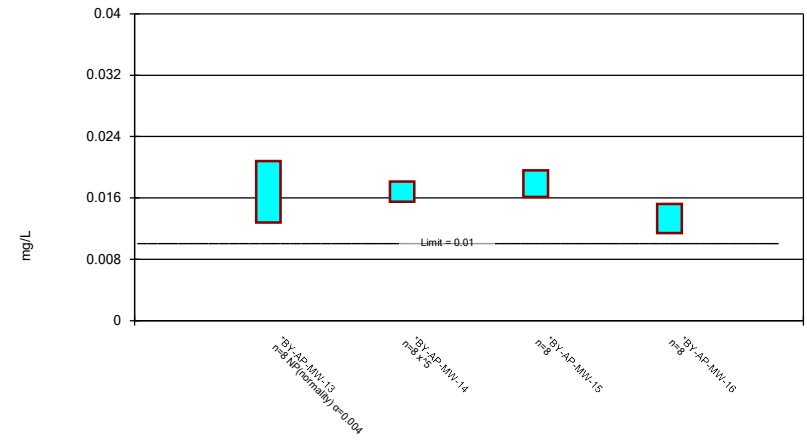
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on



Constituent: Arsenic Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

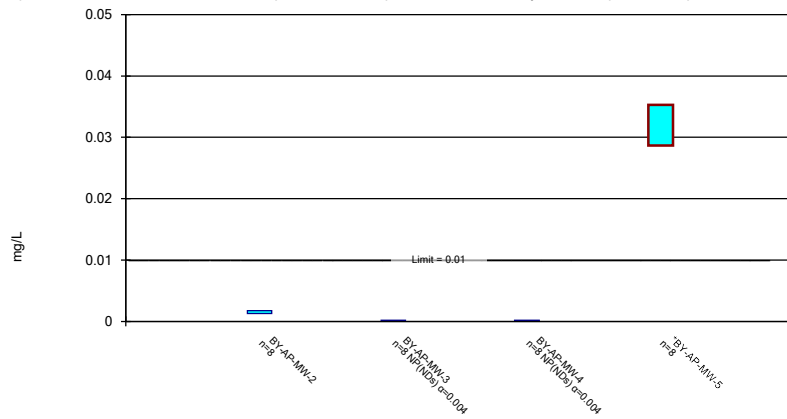
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on



Constituent: Arsenic Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

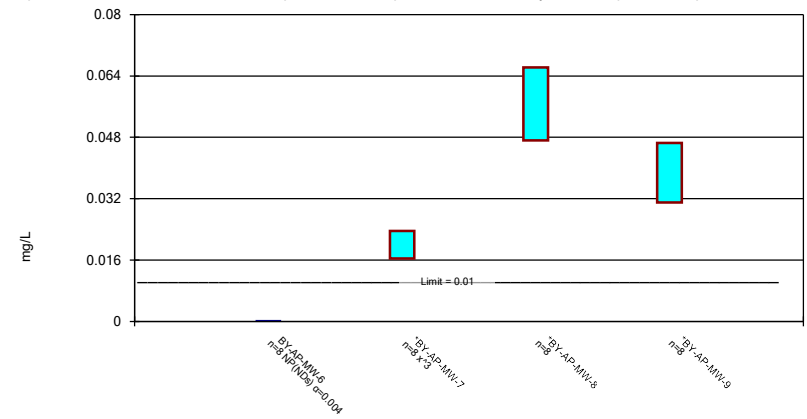
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on



Constituent: Arsenic Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

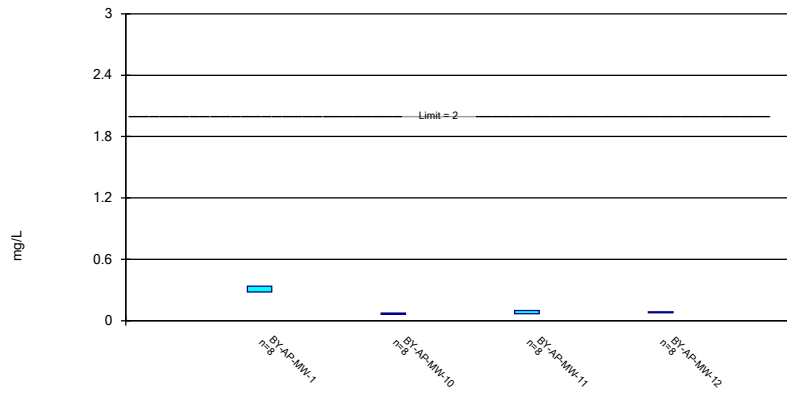
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on



Constituent: Arsenic Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

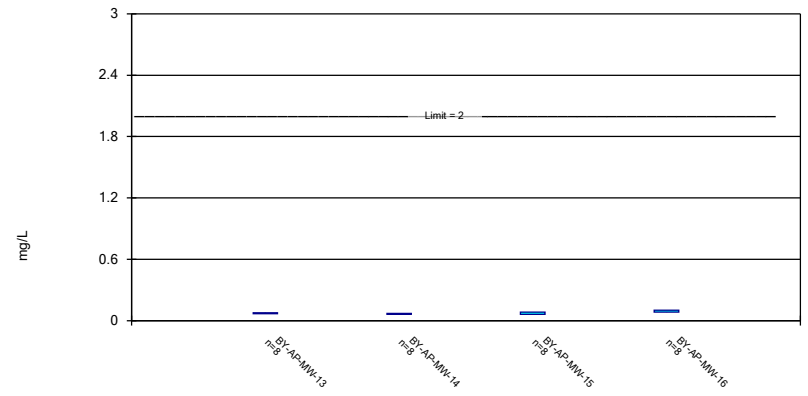
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

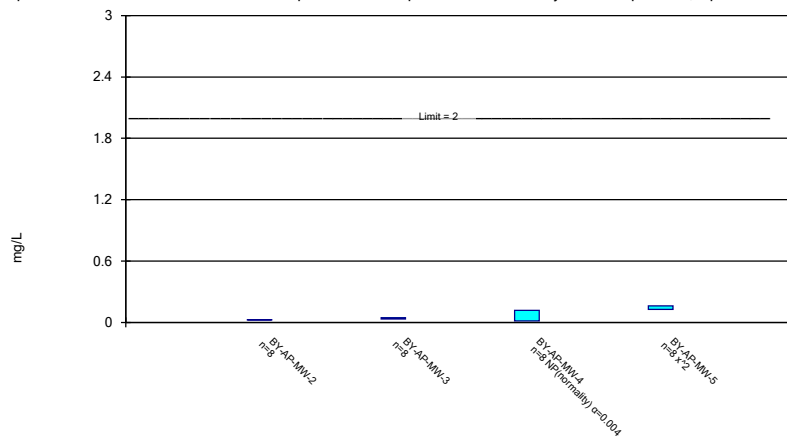
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

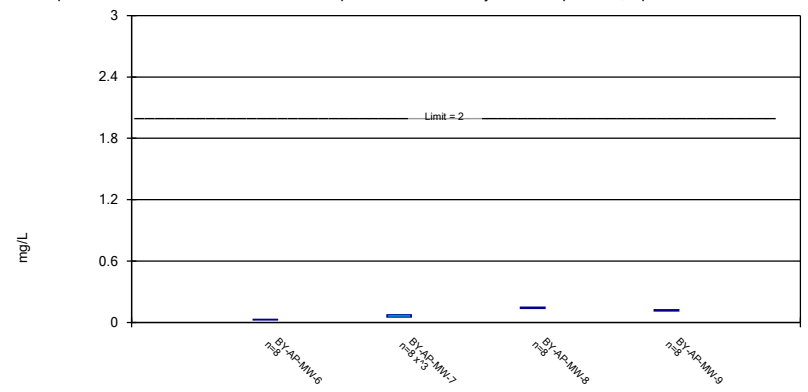
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Barium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

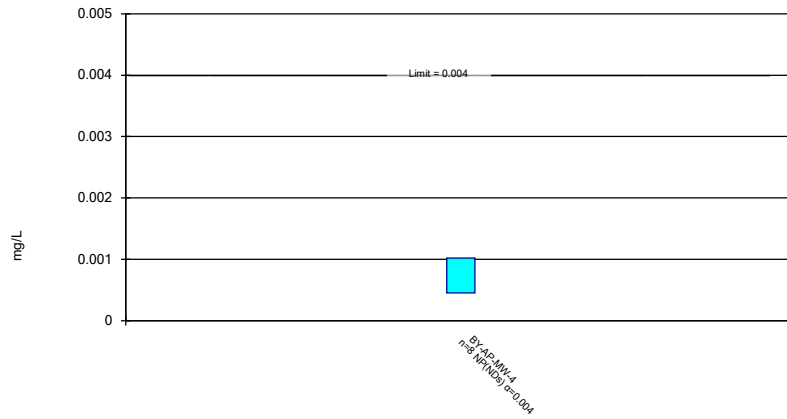
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

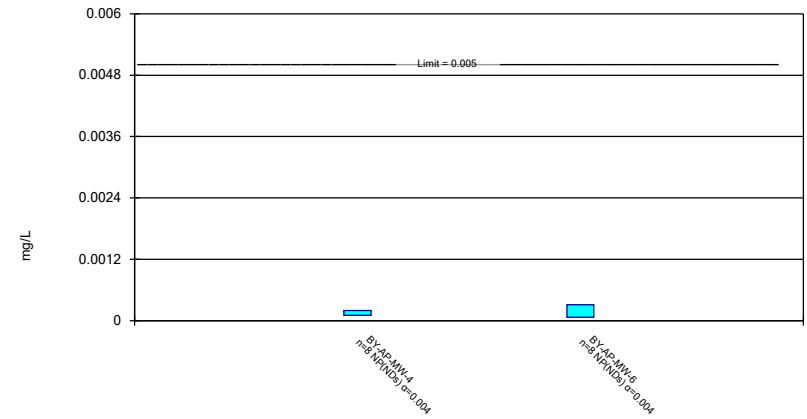
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

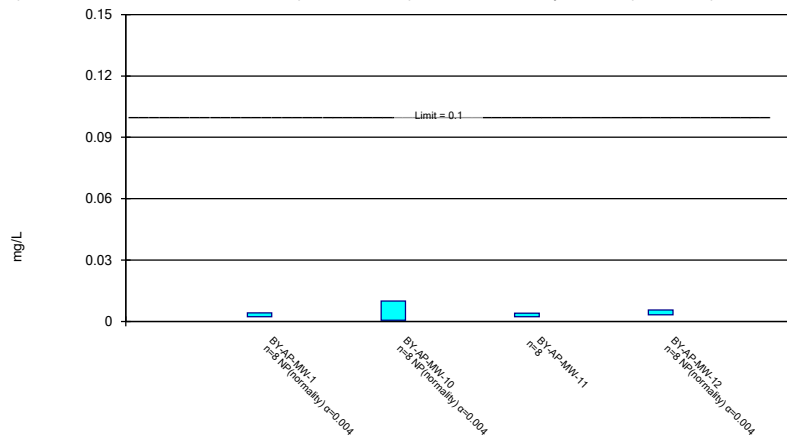
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

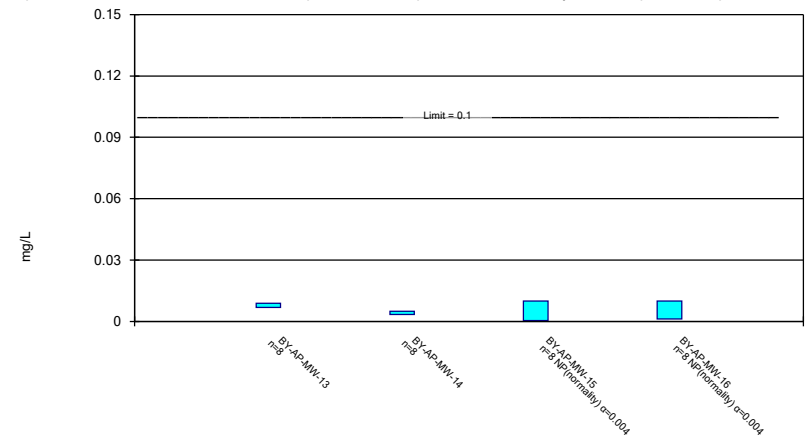
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Chromium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

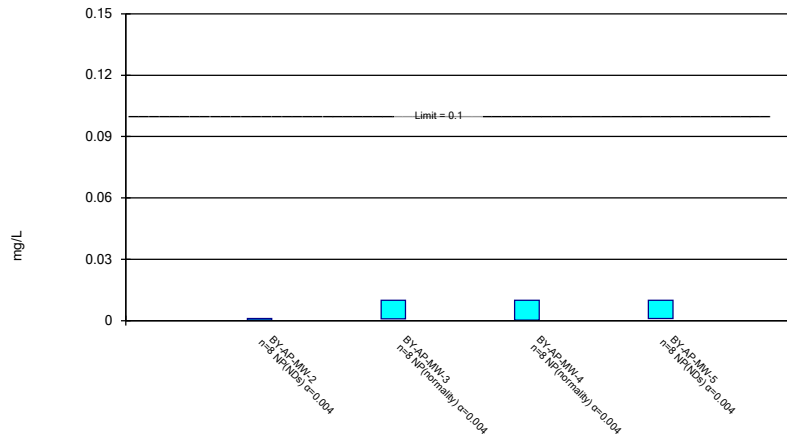
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



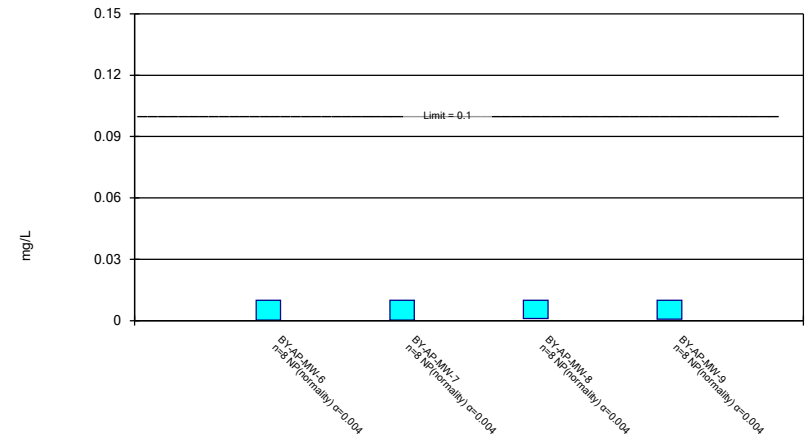
Constituent: Chromium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

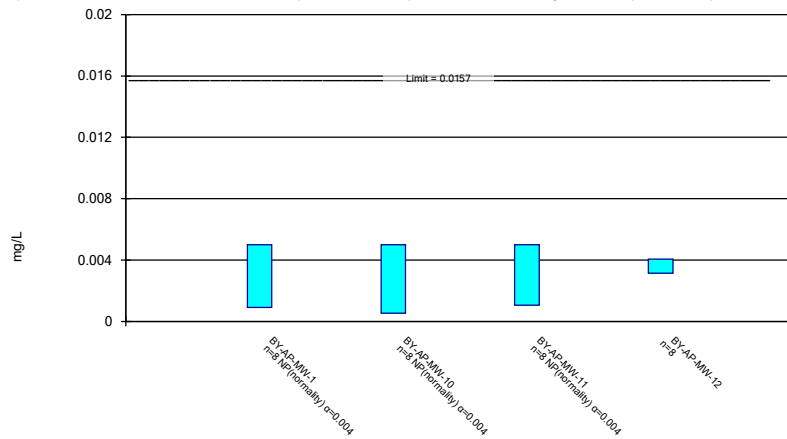
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

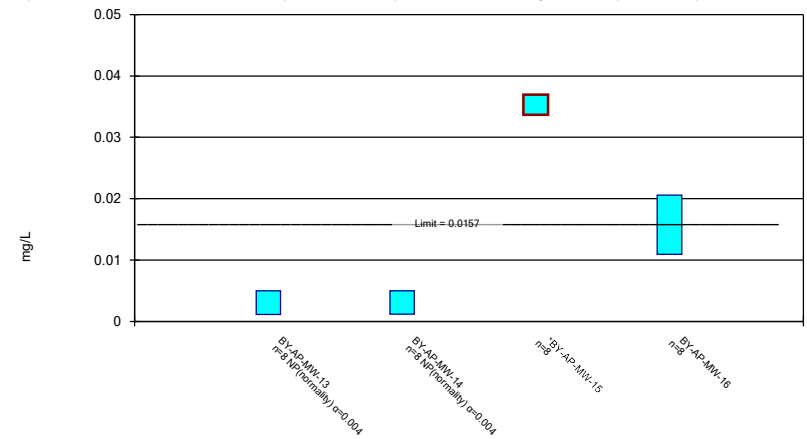
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Cobalt Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

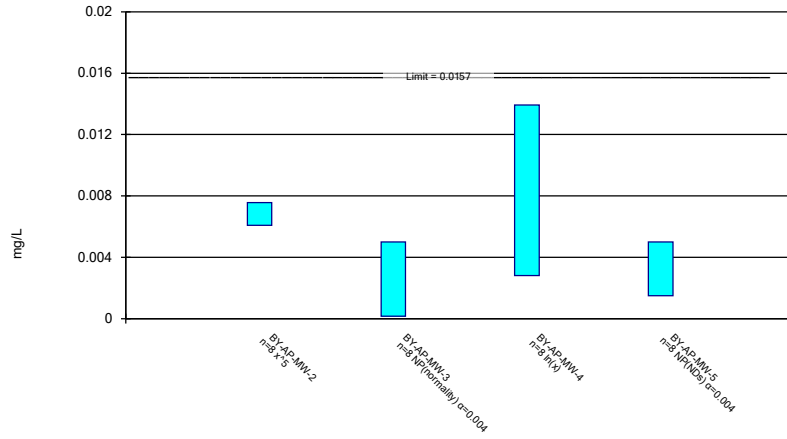
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on



Constituent: Cobalt Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

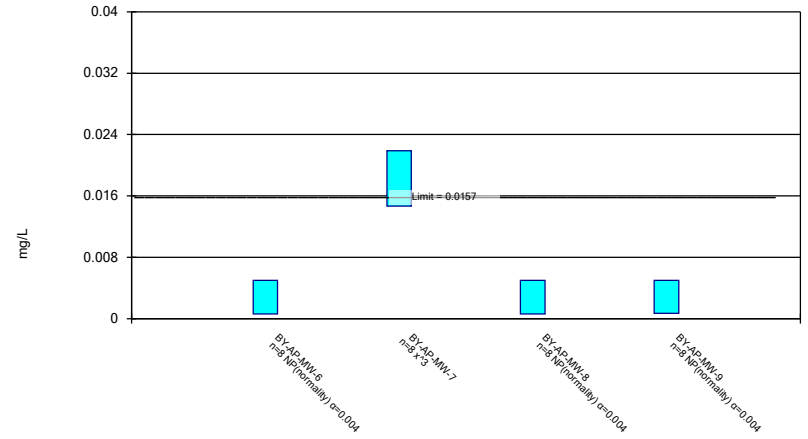
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Cobalt Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

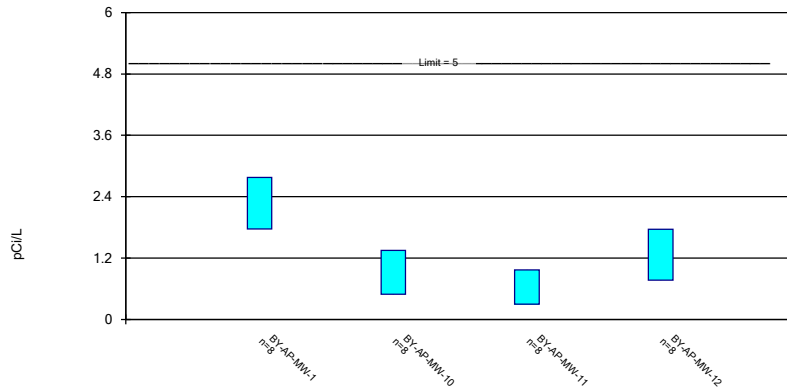
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Cobalt Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

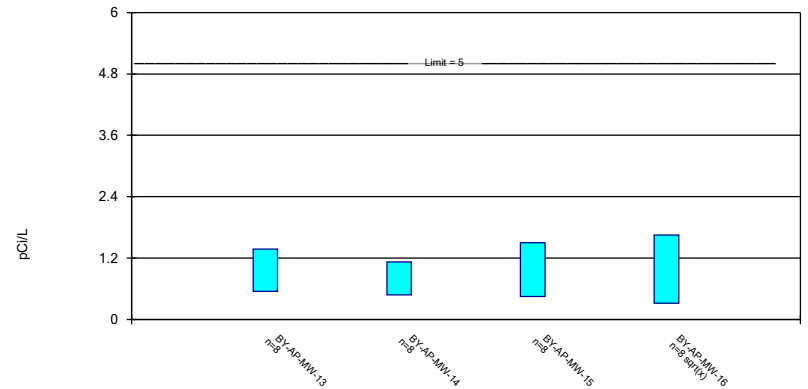
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

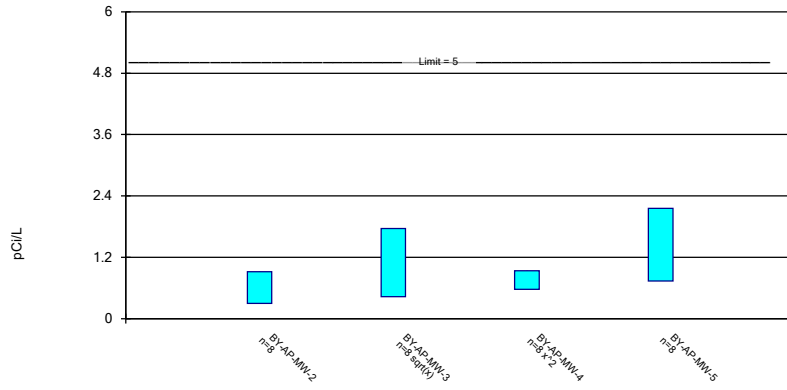
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

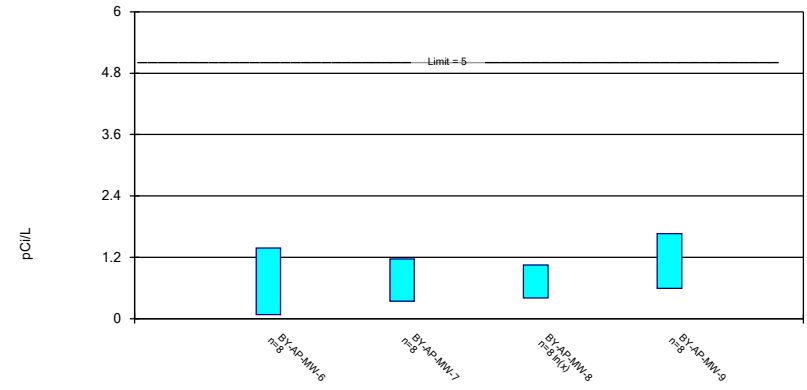
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

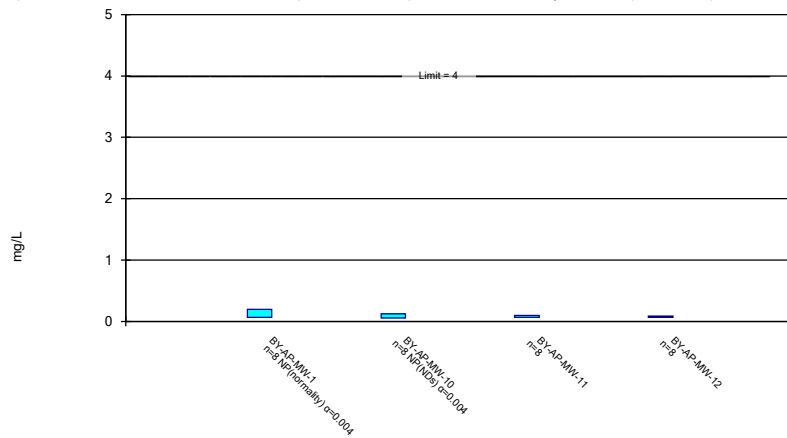
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

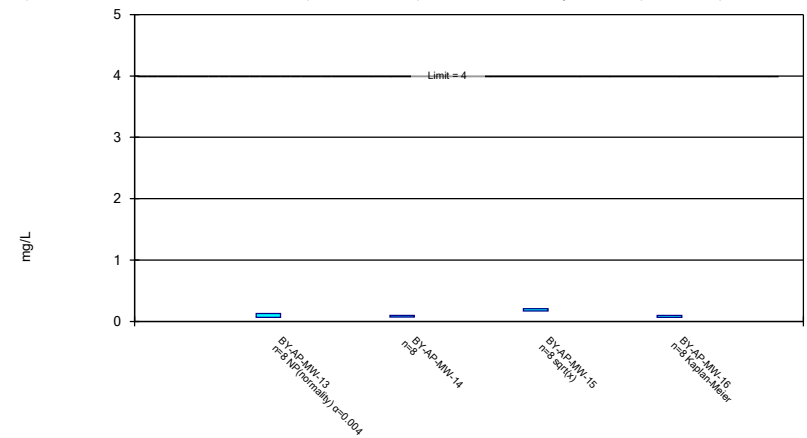
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Fluoride, total Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

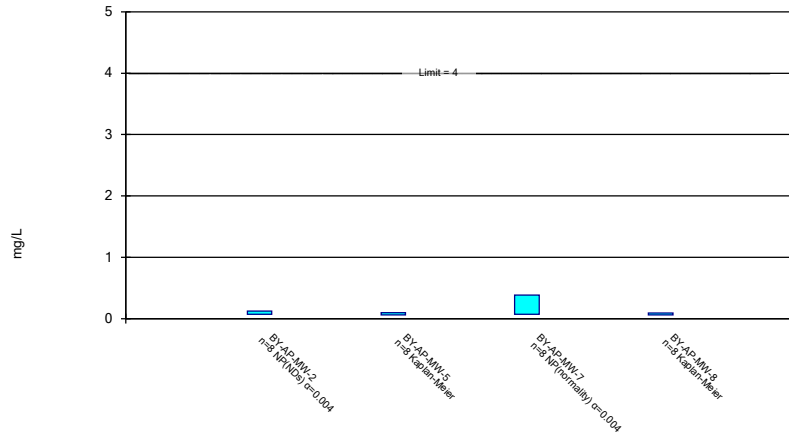
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Fluoride, total Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

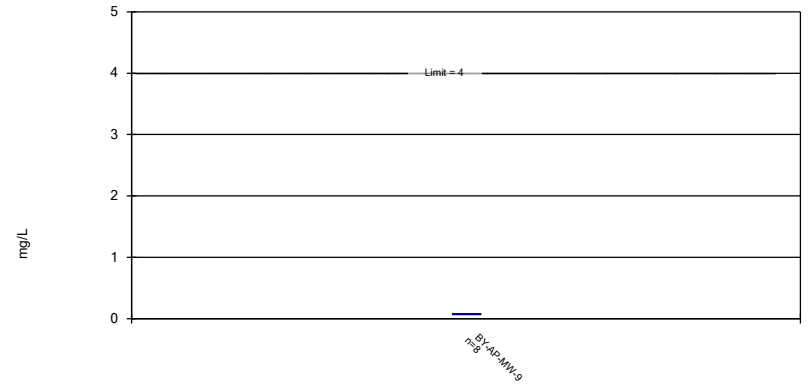
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Fluoride, total Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric Confidence Interval

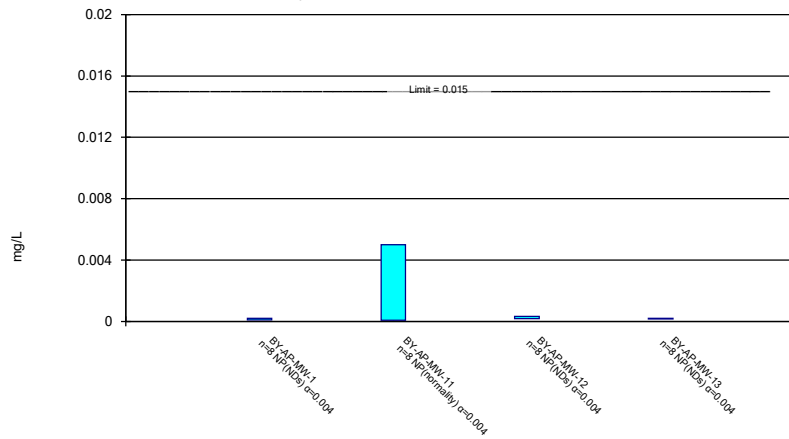
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

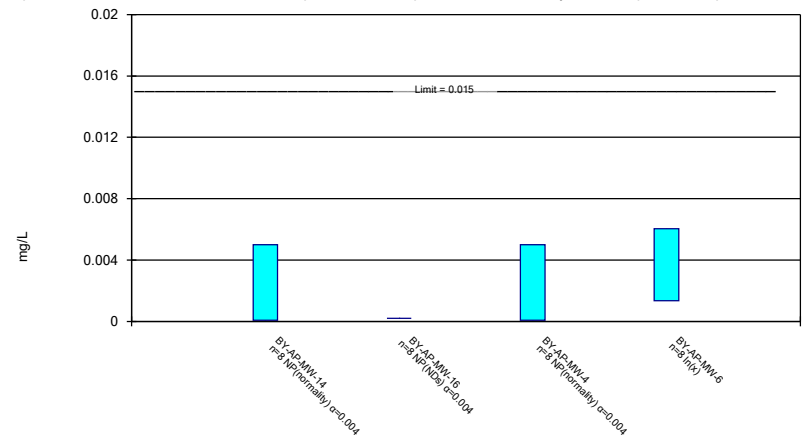
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 12/28/2022 5:19 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

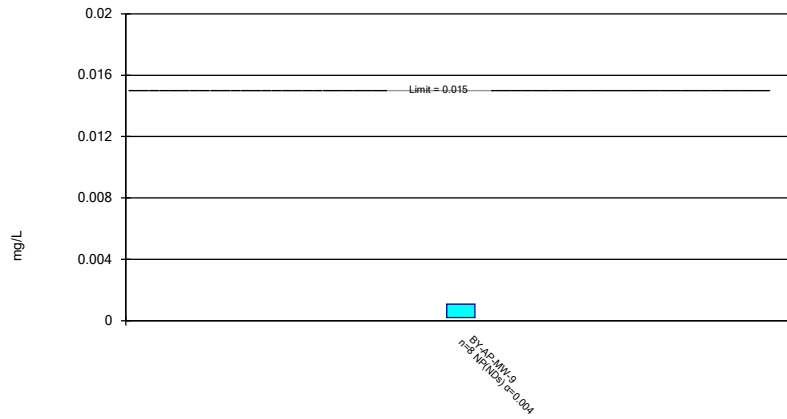
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Lead Analysis Run 12/28/2022 5:20 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

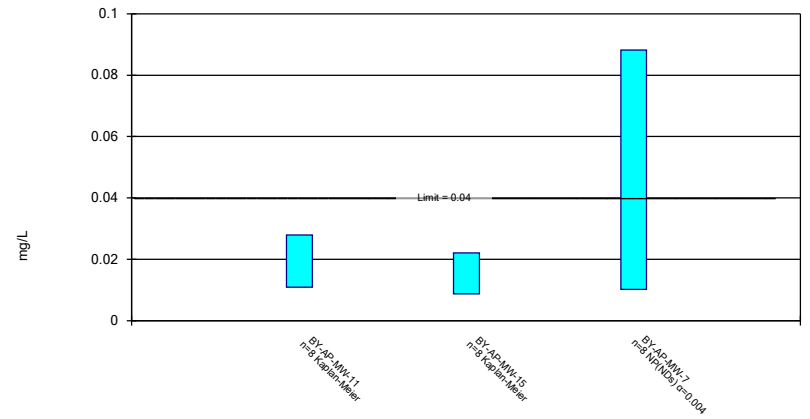
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 12/28/2022 5:20 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Parametric and Non-Parametric (NP) Confidence Interval

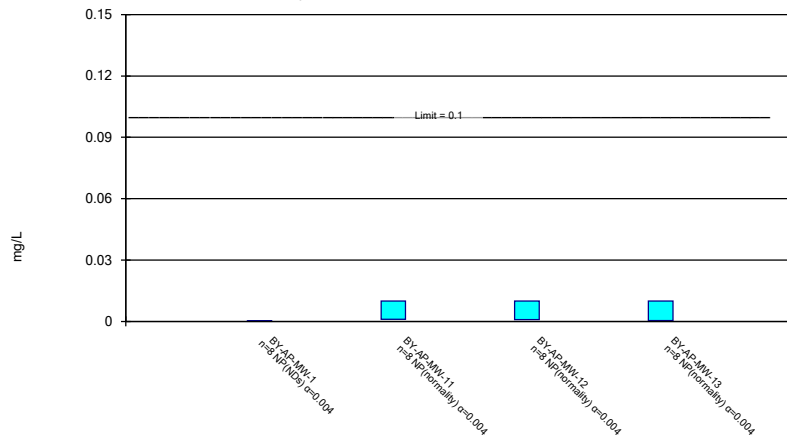
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based



Constituent: Lithium Analysis Run 12/28/2022 5:20 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

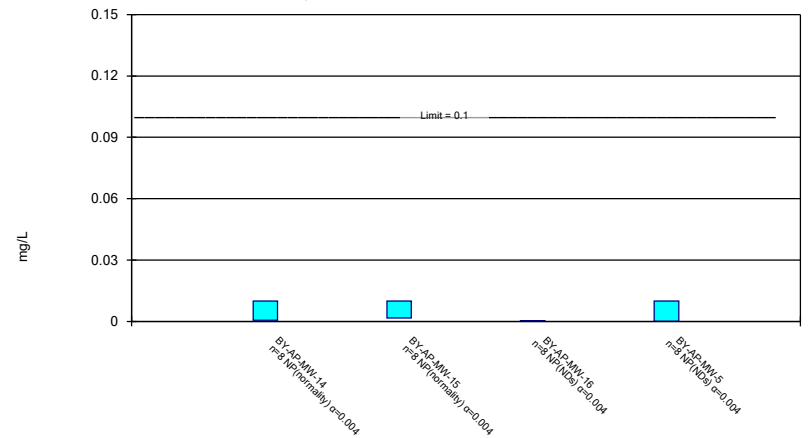
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 12/28/2022 5:20 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

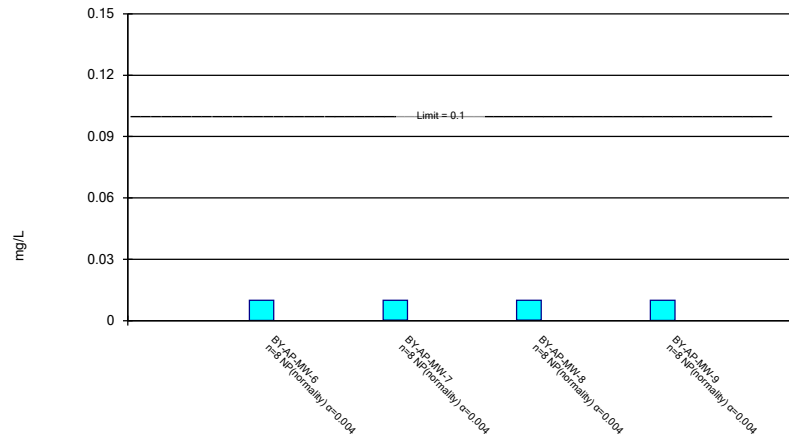
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 12/28/2022 5:20 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

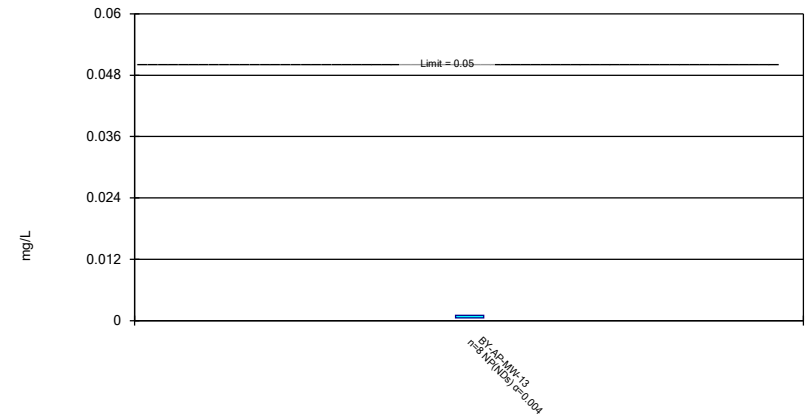
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 12/28/2022 5:20 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 12/28/2022 5:20 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
5/29/2019	0.0555		0.0132	0.0215
7/31/2019		0.0649		
9/30/2019		0.0704	0.0145	
10/1/2019	0.0635			0.0221
3/30/2020	0.0557			
3/31/2020		0.0702	0.0158	0.0246
9/1/2020	0.0811	0.0763	0.0165	0.0246
5/11/2021		0.0762		
5/18/2021	0.0687			0.0237
5/19/2021			0.0166	
10/27/2021		0.0705		
11/1/2021	0.0694			0.0245
11/2/2021			0.0161	
5/23/2022			0.0142	0.0245
5/24/2022	0.0767	0.0775		
11/1/2022			0.0148	0.0226
11/2/2022	0.0682	0.0742		
Mean	0.06735	0.07253	0.01521	0.02351
Std. Dev.	0.009057	0.004267	0.001223	0.001267
Upper Lim.	0.07695	0.07705	0.01651	0.0246
Lower Lim.	0.05775	0.068	0.01392	0.0215

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
5/29/2019	0.0138	0.014	0.0148	0.0106
10/1/2019	0.0144	0.0152	0.017	0.0138
3/31/2020	0.0154	0.0177		0.012
4/1/2020			0.0183	
9/1/2020	0.0148			
9/2/2020		0.0174	0.0206	0.0137
5/11/2021			0.0184	
5/19/2021	0.014			0.0118
5/25/2021		0.0172		
10/26/2021	0.013		0.0186	
10/27/2021		0.0174		
11/1/2021				0.0151
5/24/2022	0.0128			
5/25/2022		0.0183	0.0176	0.0134
11/1/2022	0.0208	0.0174	0.0177	0.0161
Mean	0.01488	0.01683	0.01788	0.01331
Std. Dev.	0.002545	0.001449	0.001636	0.001802
Upper Lim.	0.0208	0.01813	0.01961	0.01522
Lower Lim.	0.0128	0.01552	0.01614	0.0114

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
11/27/2018				0.0283
5/29/2019	0.00132 (J)	<0.0002	<0.0002	0.0301
10/1/2019	0.0014 (J)	<0.0002	<0.0002	0.0307
3/31/2020	0.00149 (J)	<0.0002	<0.0002	0.0329
8/31/2020	0.00176 (J)			
9/1/2020		<0.0002	<0.0002	0.0372
5/18/2021	0.00159	<0.0002	0.000125 (J)	
11/1/2021	0.00191	<0.0002	0.0002	
11/2/2021				0.0357
5/24/2022	0.00115			
5/25/2022		<0.0002	<0.0002	0.0316
10/31/2022			9.9E-05 (J)	0.0292
11/1/2022		0.000102 (J)		
11/2/2022	0.00151			
Mean	0.001516	0.0001877	0.000178	0.03196
Std. Dev.	0.0002411	3.465E-05	4.132E-05	0.003129
Upper Lim.	0.001772	0.0002	0.0002	0.03528
Lower Lim.	0.001261	0.000102	9.9E-05	0.02865

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
5/29/2019	<0.000203	0.0178	0.0482	
5/30/2019				0.0349
9/30/2019		0.0217	0.0514	0.0391
10/1/2019	<0.000203			
3/30/2020		0.0215	0.0589	
3/31/2020	<0.000203			0.0393
9/2/2020	<0.000203	0.0234	0.0629	0.0432
5/11/2021			0.0659	
5/17/2021	0.000103 (J)			
5/18/2021		0.0215		0.0435
10/26/2021			0.0668	
10/27/2021		0.0236		0.0468
11/2/2021	0.0001 (J)			
5/24/2022		0.0197	0.0583	0.0404
5/25/2022	<0.000203			
10/31/2022	<0.000203	0.00873		0.023
11/2/2022			0.0415	
Mean	0.0001776	0.01974	0.05674	0.03878
Std. Dev.	4.699E-05	0.00483	0.008975	0.007302
Upper Lim.	0.000203	0.02356	0.06625	0.04651
Lower Lim.	0.0001	0.01641	0.04722	0.03104

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
5/29/2019	0.29		0.0653	0.0769
5/30/2019		0.063		
9/30/2019		0.0669	0.0759	
10/1/2019	0.293			0.0795
3/30/2020	0.279			
3/31/2020		0.0727	0.0842	0.0851
9/1/2020	0.33	0.078	0.0923	0.0827
5/11/2021		0.0757		
5/18/2021	0.339			0.0902
5/19/2021			0.112	
10/27/2021		0.0638		
11/1/2021	0.322			0.0823
11/2/2021			0.0894	
5/23/2022			0.0691	0.0802
5/24/2022	0.343	0.0618		
11/1/2022			0.078	0.079
11/2/2022	0.279	0.0617		
Mean	0.3094	0.06795	0.08328	0.08199
Std. Dev.	0.02694	0.006583	0.01489	0.004174
Upper Lim.	0.3379	0.07493	0.09905	0.08641
Lower Lim.	0.2808	0.06097	0.0675	0.07756

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
5/29/2019	0.0704	0.0617	0.0562	0.081
10/1/2019	0.0696	0.0605	0.0628	0.0803
3/31/2020	0.0728	0.0619		0.091
4/1/2020			0.0697	
9/1/2020	0.0722			
9/2/2020		0.0687	0.0736	0.0954
5/11/2021			0.0762	
5/19/2021	0.0817			0.102
5/25/2021		0.0745		
10/26/2021	0.0667		0.0784	
10/27/2021		0.0651		
11/1/2021				0.0988
5/24/2022	0.0723			
5/25/2022		0.0693	0.0846	0.0977
11/1/2022	0.0783	0.0681	0.0745	0.0905
Mean	0.073	0.06623	0.072	0.09209
Std. Dev.	0.004825	0.004793	0.00899	0.00803
Upper Lim.	0.07811	0.07131	0.08153	0.1006
Lower Lim.	0.06789	0.06114	0.06247	0.08358

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
11/27/2018				0.139
5/29/2019	0.0232	0.037	0.0203	0.146
10/1/2019	0.0241	0.0356	0.0207	0.138
3/31/2020	0.0264	0.0393	0.0193	0.15
8/31/2020	0.0275			
9/1/2020		0.038	0.0131	0.154
5/18/2021	0.0259	0.0406	0.0225	
11/1/2021	0.0247	0.0371	0.0217	
11/2/2021				0.159
5/24/2022	0.0248			
5/25/2022		0.0494	0.0399	0.155
10/31/2022			0.118	0.105
11/1/2022		0.0289		
11/2/2022	0.0201			
Mean	0.02459	0.03824	0.03444	0.1433
Std. Dev.	0.002263	0.005711	0.03462	0.01717
Upper Lim.	0.02699	0.04429	0.118	0.1599
Lower Lim.	0.02219	0.03218	0.0131	0.1264

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
5/29/2019	0.0244	0.059	0.138	
5/30/2019				0.112
9/30/2019		0.0648	0.138	0.117
10/1/2019	0.0257			
3/30/2020		0.059	0.141	
3/31/2020	0.0244			0.119
9/2/2020	0.0282	0.0745	0.151	0.124
5/11/2021			0.147	
5/17/2021	0.0305			
5/18/2021		0.07		0.125
10/26/2021			0.136	
10/27/2021		0.0664		0.117
11/2/2021	0.0286			
5/24/2022		0.0717	0.142	0.117
5/25/2022	0.0268			
10/31/2022	0.0263	0.0188		0.111
11/2/2022			0.149	
Mean	0.02686	0.06053	0.1428	0.1178
Std. Dev.	0.002133	0.01776	0.0056	0.004979
Upper Lim.	0.02912	0.07358	0.1487	0.123
Lower Lim.	0.0246	0.05045	0.1368	0.1125

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4
5/29/2019	<0.00102
10/1/2019	<0.00102
3/31/2020	<0.00102
9/1/2020	<0.00102
5/18/2021	<0.00102
11/1/2021	<0.00102
5/25/2022	0.00065 (J)
10/31/2022	0.000451 (J)
Mean	0.0009026
Std. Dev.	0.0002237
Upper Lim.	0.00102
Lower Lim.	0.000451

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-4	BY-AP-MW-6
5/29/2019	<0.0002	<0.000203
10/1/2019	<0.0002	<0.000203
3/31/2020	<0.0002	<0.000203
9/1/2020	<0.0002	
9/2/2020		<0.000203
5/17/2021		<0.000203
5/18/2021	<0.0002	
11/1/2021	<0.0002	
11/2/2021		7E-05 (J)
5/25/2022	<0.0002	0.00031
10/31/2022	0.000102 (J)	6.8E-05 (J)
Mean	0.0001877	0.0001829
Std. Dev.	3.465E-05	7.939E-05
Upper Lim.	0.0002	0.00031
Lower Lim.	0.000102	6.8E-05

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
5/29/2019	0.00223 (J)		0.00211 (J)	0.00333 (J)
5/30/2019		<0.01		
9/30/2019		<0.01	0.00228 (J)	
10/1/2019	0.00236 (J)			0.00325 (J)
3/30/2020	0.00415 (J)			
3/31/2020		<0.01	0.00358 (J)	0.0056 (J)
9/1/2020	0.00242 (J)	<0.01	0.00259 (J)	0.00332 (J)
5/11/2021		0.000685 (J)		
5/18/2021	0.00294			0.00377
5/19/2021			0.00301	
10/27/2021		0.00072 (J)		
11/1/2021	0.00244			0.00423
11/2/2021			0.00348	
5/23/2022			0.00474	0.00374
5/24/2022	0.00238	0.00052 (J)		
11/1/2022			0.00316	0.00338
11/2/2022	0.00371	0.000642 (J)		
Mean	0.002829	0.005321	0.003119	0.003828
Std. Dev.	0.0007204	0.005003	0.000844	0.0007886
Upper Lim.	0.00415	0.01	0.004013	0.0056
Lower Lim.	0.00223	0.00052	0.002224	0.00325

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
5/29/2019	0.00727 (J)	0.00455 (J)	<0.01	<0.01
10/1/2019	0.00764 (J)	0.00508 (J)	<0.01	<0.01
3/31/2020	0.00955 (J)	0.00463 (J)		<0.01
4/1/2020			<0.01	
9/1/2020	0.00888 (J)			
9/2/2020		0.00482 (J)	<0.01	<0.01
5/11/2021			0.000581 (J)	
5/19/2021	0.00692			0.00162
5/25/2021		0.00365		
10/26/2021	0.00755		0.00052 (J)	
10/27/2021		0.00401		
11/1/2021				0.0018
5/24/2022	0.00685			
5/25/2022		0.00345	0.00049 (J)	0.00135
11/1/2022	0.00772	0.00317	0.000361 (J)	0.00122
Mean	0.007798	0.00417	0.005244	0.005749
Std. Dev.	0.0009473	0.0006991	0.005085	0.004548
Upper Lim.	0.008802	0.004911	0.01	0.01
Lower Lim.	0.006793	0.003429	0.000361	0.00122

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
11/27/2018				<0.01
5/29/2019	<0.00102	<0.01	<0.01	<0.01
10/1/2019	<0.00102	<0.01	<0.01	<0.01
3/31/2020	<0.00102	<0.01	<0.01	<0.01
8/31/2020	<0.00102			
9/1/2020		<0.01	<0.01	<0.01
5/18/2021	0.000394 (J)	0.000919 (J)	0.000544 (J)	
11/1/2021	0.00029 (J)	0.00093 (J)	0.00067 (J)	
11/2/2021				0.00101 (J)
5/24/2022	<0.00102			
5/25/2022		0.00104	0.00026 (J)	0.00103
10/31/2022			0.00057 (J)	0.00096 (J)
11/1/2022		0.00107		
11/2/2022	0.000206 (J)			
Mean	0.0007487	0.005495	0.005255	0.006625
Std. Dev.	0.0003777	0.004816	0.005073	0.004658
Upper Lim.	0.00102	0.01	0.01	0.01
Lower Lim.	0.000206	0.000919	0.00026	0.00096

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
5/29/2019	<0.01	<0.01	<0.01	
5/30/2019				<0.01
9/30/2019		<0.01	<0.01	<0.01
10/1/2019	<0.01			
3/30/2020		<0.01	<0.01	
3/31/2020	<0.01			<0.01
9/2/2020	<0.01	<0.01	<0.01	<0.01
5/11/2021			0.00156	
5/17/2021	0.000313 (J)			
5/18/2021		0.00709		0.00078 (J)
10/26/2021			0.00165	
10/27/2021		0.00309		0.00087 (J)
11/2/2021	0.00023 (J)			
5/24/2022		0.00058 (J)	0.00128	0.0007 (J)
5/25/2022	0.00029 (J)			
10/31/2022	0.000281 (J)	0.000263 (J)		0.000692 (J)
11/2/2022			0.001 (J)	
Mean	0.005139	0.006378	0.005686	0.00538
Std. Dev.	0.005196	0.004388	0.004616	0.004939
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.00023	0.000263	0.001	0.000692

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
5/29/2019	<0.005		<0.005	0.00358 (J)
5/30/2019		<0.005		
9/30/2019		<0.005	<0.005	
10/1/2019	<0.005			0.00303 (J)
3/30/2020	<0.005			
3/31/2020		<0.005	<0.005	0.00364 (J)
9/1/2020	<0.005	<0.005	<0.005	0.0031 (J)
5/11/2021		0.000636		
5/18/2021	0.000996			0.00336
5/19/2021			0.00257	
10/27/2021		0.00065		
11/1/2021	0.00091			0.0037
11/2/2021			0.00118	
5/23/2022			0.00118	0.00428
5/24/2022	0.00091	0.00054		
11/1/2022			0.00105	0.00406
11/2/2022	0.00102	0.000605		
Mean	0.002979	0.002804	0.003247	0.003594
Std. Dev.	0.00216	0.002348	0.001932	0.0004339
Upper Lim.	0.005	0.005	0.005	0.004054
Lower Lim.	0.00091	0.00054	0.00105	0.003134

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
5/29/2019	<0.005	<0.005	0.0343	0.0206
10/1/2019	<0.005	<0.005	0.0336	0.0107
3/31/2020	<0.005	<0.005		0.0199
4/1/2020			0.0344	
9/1/2020	<0.005			
9/2/2020		<0.005	0.0385	0.0192
5/11/2021			0.0349	
5/19/2021	0.00113			0.0182
5/25/2021		0.00124		
10/26/2021	0.00122		0.0347	
10/27/2021		0.00125		
11/1/2021				0.0139
5/24/2022	0.00189			
5/25/2022		0.00125	0.0364	0.0155
11/1/2022	0.00274	0.0012	0.0357	0.00812
Mean	0.003372	0.003117	0.03531	0.01577
Std. Dev.	0.001807	0.002013	0.001551	0.004565
Upper Lim.	0.005	0.005	0.03696	0.0206
Lower Lim.	0.00113	0.0012	0.03367	0.01093

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
5/1/2018			0.0126 (O)	
11/27/2018				<0.005
5/29/2019	0.00745	<0.005	0.00549	<0.005
10/1/2019	0.00696	<0.005	<0.005	<0.005
3/31/2020	0.00716	<0.005	0.0205	<0.005
8/31/2020	0.00751			
9/1/2020		<0.005	0.00657	<0.005
5/18/2021	0.00746	0.000196 (J)	0.018	
11/1/2021	0.00706	0.00016 (J)	0.00478	
11/2/2021				0.00197
5/24/2022	0.00582			
5/25/2022		0.00028	0.00455	0.00184
10/31/2022			0.00319	0.0015
11/1/2022		0.000152 (J)		
11/2/2022	0.00497			
Mean	0.006799	0.002598	0.008197	0.003789
Std. Dev.	0.0009176	0.002568	0.006969	0.001677
Upper Lim.	0.007566	0.005	0.01393	0.005
Lower Lim.	0.006078	0.000152	0.002798	0.0015

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
5/29/2019	<0.005	0.0197	<0.005	
5/30/2019				<0.005
9/30/2019		0.0186	<0.005	<0.005
10/1/2019	<0.005			
3/30/2020		0.0172	<0.005	
3/31/2020	<0.005			<0.005
9/2/2020	<0.005	0.0197	<0.005	<0.005
5/11/2021			0.000778	
5/17/2021	0.000678			
5/18/2021		0.0189		0.000725
10/26/2021			0.00079	
10/27/2021		0.0206		0.0007
11/2/2021	0.0006			
5/24/2022		0.023	0.00067	0.00069
5/25/2022	0.00098			
10/31/2022	0.000588	0.00239		0.000698
11/2/2022			0.00059	
Mean	0.002856	0.01751	0.002853	0.002852
Std. Dev.	0.002295	0.006337	0.002296	0.002297
Upper Lim.	0.005	0.02187	0.005	0.005
Lower Lim.	0.000588	0.01467	0.00059	0.00069

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
11/28/2018	1.48	0.609	0.232 (U)	0.846
5/29/2019	2.25		0.726	2.06
5/30/2019		0.0949 (U)		
9/30/2019		0.965	0.489 (U)	
10/1/2019	2.84			0.984
3/30/2020	2.31			
3/31/2020		1.14	0.462 (U)	1.26
5/11/2021		1.12 (U)		
5/18/2021	2.99			1.11
5/19/2021			1.15	
10/27/2021		1.2 (U)		
11/1/2021	2.22			1.79
11/2/2021			0.504 (U)	
5/23/2022			0.452 (U)	1.4
5/24/2022	2.12	1.36 (U)		
11/1/2022			1.03	0.672 (U)
11/2/2022	1.96	0.886 (U)		
Mean	2.271	0.9219	0.6306	1.265
Std. Dev.	0.4767	0.4037	0.3148	0.4715
Upper Lim.	2.776	1.35	0.9643	1.765
Lower Lim.	1.766	0.4939	0.297	0.7655

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
11/27/2018		0.576	0.764	0.744
11/28/2018	0.523			
5/29/2019	1.01	0.437 (U)	0.433	2.51
10/1/2019	1.07	1.11	0.988	0.443 (U)
3/31/2020	0.725	0.941		0.341 (U)
4/1/2020			0.527	
5/11/2021			0.684 (U)	
5/19/2021	1.15			0.321 (U)
5/25/2021		0.978 (U)		
10/26/2021	1.74		1.95	
10/27/2021		0.587 (U)		
11/1/2021				1.28
5/24/2022	0.915 (U)			
5/25/2022		1.25	1.3	0.927 (U)
11/1/2022	0.569 (U)	0.528 (U)	1.15	1.09
Mean	0.9628	0.8009	0.9745	0.957
Std. Dev.	0.3892	0.3051	0.4944	0.7199
Upper Lim.	1.375	1.124	1.498	1.652
Lower Lim.	0.5503	0.4775	0.4505	0.3191

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-3	BY-AP-MW-4	BY-AP-MW-5
5/2/2018				0.58
11/27/2018	0.359 (U)	0.591	0.695	1.43
5/29/2019	1.18	2.31	0.947	2.16
10/1/2019	0.284 (U)	1.52	0.7	2.14
3/31/2020	0.699	0.478 (U)	0.323 (U)	0.754
5/18/2021	0.72 (U)	0.749 (U)	0.734 (U)	
11/1/2021	0.523 (U)	0.688 (U)	0.888 (U)	
11/2/2021				2.06
5/24/2022	0.732 (U)			
5/25/2022		1.72	0.821 (U)	1.71
10/31/2022			0.927	0.75 (U)
11/1/2022		0.505 (U)		
11/2/2022	0.366 (U)			
Mean	0.6079	1.07	0.7544	1.448
Std. Dev.	0.2918	0.6877	0.2008	0.671
Upper Lim.	0.9172	1.76	0.9378	2.159
Lower Lim.	0.2986	0.4302	0.5738	0.7368

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
11/27/2018			0.687	
11/28/2018	0.478 (U)	0.62		0.747
5/29/2019	-0.276 (U)	0.244 (U)	0.627 (U)	
5/30/2019				1.08
9/30/2019		0.388 (U)	0.321 (U)	0.58
10/1/2019	0.742			
3/30/2020		0.744	0.6	
3/31/2020	0.291 (U)			0.82
5/11/2021			0.648 (U)	
5/17/2021	1.84			
5/18/2021		0.597 (U)		0.98 (U)
10/26/2021			1.61	
10/27/2021		1.46 (U)		1.07 (U)
11/2/2021	0.773 (U)			
5/24/2022		1.05 (U)	0.733 (U)	2.11
5/25/2022	1.06 (U)			
10/31/2022	0.925	0.932		1.64
11/2/2022			0.503 (U)	
Mean	0.7291	0.7544	0.7161	1.128
Std. Dev.	0.6152	0.3881	0.3832	0.5063
Upper Lim.	1.381	1.166	1.046	1.665
Lower Lim.	0.07705	0.343	0.4039	0.5917

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-10	BY-AP-MW-11	BY-AP-MW-12
5/29/2019	0.0858 (J)		0.0759 (J)	0.0677 (J)
5/30/2019		0.0573 (J)		
9/30/2019		<0.125	0.0733 (J)	
10/1/2019	0.0744 (J)			0.0682 (J)
3/30/2020	0.0726 (J)			
3/31/2020		<0.125	0.078 (J)	0.0755 (J)
9/1/2020	0.194	0.0794 (J)	0.0841 (J)	0.0845 (J)
5/11/2021		0.105		
5/18/2021	0.0884 (J)			0.0614 (J)
5/19/2021			0.0994 (J)	
10/27/2021		<0.125		
11/1/2021	0.181			0.0928 (J)
11/2/2021			0.101	
5/23/2022			0.0709 (J)	0.0873 (J)
5/24/2022	0.0801 (J)	<0.125 (D)		
11/1/2022			0.0612 (J)	0.0695 (J)
11/2/2022	0.0665 (J)	<0.125		
Mean	0.1054	0.1083	0.08048	0.07586
Std. Dev.	0.05131	0.0263	0.01381	0.01113
Upper Lim.	0.194	0.125	0.09511	0.08766
Lower Lim.	0.0665	0.0573	0.06584	0.06406

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16
5/29/2019	0.0679 (J)	0.0781 (J)	0.168	0.0683 (J)
10/1/2019	0.0703 (J)	0.0885 (J)	0.185	0.0774 (J)
3/31/2020	0.0665 (J)	0.0867 (J)		0.0602 (J)
4/1/2020			0.187	
9/1/2020	0.0757 (J)			
9/2/2020		0.0957 (J)	0.18	<0.125
5/11/2021			0.214	
5/19/2021	0.0748 (J)			0.0793 (J)
5/25/2021		0.0957 (J)		
10/26/2021	0.0641 (J)		0.171	
10/27/2021		0.0651 (J)		
11/1/2021				0.0887 (J)
5/24/2022	0.0769 (J)			
5/25/2022		0.0733 (J)	0.214	<0.125
11/1/2022	0.13	0.0685 (J)	0.177	0.112 (J)
Mean	0.07828	0.08145	0.187	0.09199
Std. Dev.	0.0214	0.01193	0.01784	0.02546
Upper Lim.	0.13	0.09409	0.2057	0.09845
Lower Lim.	0.0641	0.06881	0.1685	0.06351

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-2	BY-AP-MW-5	BY-AP-MW-7	BY-AP-MW-8
11/27/2018		<0.125		
5/29/2019	<0.125	0.0923 (J)	0.0937 (J)	0.0958 (J)
9/30/2019			0.0925 (J)	0.0559 (J)
10/1/2019	<0.125	0.0557 (J)		
3/30/2020			0.0933 (J)	0.0701 (J)
3/31/2020	<0.125	0.0735 (J)		
8/31/2020	<0.125			
9/1/2020		0.0921 (J)		
9/2/2020			0.109	<0.125
5/11/2021				0.094 (J)
5/18/2021	<0.125		0.11	
10/26/2021				<0.125
10/27/2021			0.0823 (J)	
11/1/2021	<0.125			
11/2/2021		0.0964 (J)		
5/24/2022	<0.125		0.0724 (J)	0.0713 (J)
5/25/2022		<0.125		
10/31/2022		0.0614 (J)	0.381	
11/2/2022	0.0711 (J)			<0.125
Mean	0.1183	0.09018	0.1293	0.09526
Std. Dev.	0.01906	0.0261	0.1025	0.0278
Upper Lim.	0.125	0.09551	0.381	0.09361
Lower Lim.	0.0711	0.06162	0.0724	0.06123

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9
5/30/2019	0.0763 (J)
9/30/2019	0.0679 (J)
3/31/2020	0.0655 (J)
9/2/2020	0.0804 (J)
5/18/2021	0.0709 (J)
10/27/2021	0.0803 (J)
5/24/2022	<0.125
10/31/2022	0.0788 (J)
Mean	0.07283
Std. Dev.	0.007064
Upper Lim.	0.08031
Lower Lim.	0.06534

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13
5/29/2019	<0.0002	<0.005	<0.000203	<0.0002
9/30/2019		<0.005		
10/1/2019	<0.0002		<0.000203	<0.0002
3/30/2020	<0.0002			
3/31/2020		<0.005	<0.000203	<0.0002
9/1/2020	<0.0002	<0.005	<0.000203	<0.0002
5/18/2021	<0.0002		0.000326	
5/19/2021		0.000102 (J)		<0.0002
10/26/2021				<0.0002
11/1/2021	<0.0002		0.00029	
11/2/2021		0.00013 (J)		
5/23/2022		9E-05 (J)	0.00018 (J)	
5/24/2022	<0.0002			0.00015 (J)
11/1/2022		7.8E-05 (J)	<0.000203	0.000151 (J)
11/2/2022	9.2E-05 (J)			
Mean	0.0001865	0.00255	0.0002264	0.0001876
Std. Dev.	3.818E-05	0.002619	5.19E-05	2.292E-05
Upper Lim.	0.0002	0.005	0.000326	0.0002
Lower Lim.	9.2E-05	7.8E-05	0.00018	0.00015

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-16	BY-AP-MW-4	BY-AP-MW-6
5/29/2019	<0.005	<0.000203	<0.005	0.00185 (J)
10/1/2019	<0.005	<0.000203	<0.005	0.00545
3/31/2020	<0.005	<0.000203	<0.005	0.00276 (J)
9/1/2020			<0.005	
9/2/2020	<0.005	<0.000203		0.00171 (J)
5/17/2021				0.00162
5/18/2021			0.00013 (J)	
5/19/2021		0.000191 (J)		
5/25/2021	7.64E-05 (J)			
10/27/2021	9E-05 (J)			
11/1/2021		<0.000203	7E-05 (J)	
11/2/2021				0.00336
5/25/2022	0.0001 (J)	<0.000203	0.00018 (J)	0.0112
10/31/2022			0.000144 (J)	0.00148
11/1/2022	8.3E-05 (J)	<0.000203		
Mean	0.002544	0.0002015	0.002565	0.003679
Std. Dev.	0.002626	4.243E-06	0.002603	0.003315
Upper Lim.	0.005	0.000203	0.005	0.006031
Lower Lim.	7.64E-05	0.000191	7E-05	0.001342

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV
Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-9
5/30/2019	0.00108 (J)
9/30/2019	<0.000203
3/31/2020	<0.000203
9/2/2020	<0.000203
5/18/2021	<0.000203
10/27/2021	<0.000203
5/24/2022	<0.000203
10/31/2022	<0.000203
Mean	0.0003126
Std. Dev.	0.0003101
Upper Lim.	0.00108
Lower Lim.	0.000203

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-11	BY-AP-MW-15	BY-AP-MW-7
5/29/2019	0.0321	0.0254	<0.02
9/30/2019	0.0228		<0.02
10/1/2019		0.0248	
3/30/2020			0.0102 (J)
3/31/2020	0.022		
4/1/2020		0.0174 (J)	
9/1/2020	<0.02		
9/2/2020		<0.02	<0.02
5/11/2021		0.00788 (J)	
5/18/2021			0.0882
5/19/2021	0.00754 (J)		
10/26/2021		0.0117 (J)	
10/27/2021			<0.02
11/2/2021	<0.02		
5/23/2022	0.0269		
5/24/2022			<0.02
5/25/2022		0.0118 (J)	
10/31/2022			<0.02
11/1/2022	0.0182 (J)	<0.02	
Mean	0.02119	0.01737	0.0273
Std. Dev.	0.007101	0.0064	0.02485
Upper Lim.	0.02796	0.02212	0.0882
Lower Lim.	0.01086	0.008726	0.0102

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-1	BY-AP-MW-11	BY-AP-MW-12	BY-AP-MW-13
5/29/2019	<0.000203	<0.01	<0.01	<0.01
9/30/2019		<0.01		
10/1/2019	<0.000203		<0.01	<0.01
3/30/2020	<0.000203			
3/31/2020		<0.01	<0.01	<0.01
9/1/2020	<0.000203	<0.01	<0.01	<0.01
5/18/2021	0.000106 (J)		0.000947	
5/19/2021		0.00652		0.000437
10/26/2021				0.00043
11/1/2021	8E-05 (J)		0.00099	
11/2/2021		0.00161		
5/23/2022		0.00141	0.00109	
5/24/2022	<0.000203			0.00356
11/1/2022		0.000972	0.000942	0.00585
11/2/2022	<0.000203			
Mean	0.0001755	0.006314	0.005496	0.006285
Std. Dev.	5.139E-05	0.004295	0.004815	0.004331
Upper Lim.	0.000203	0.01	0.01	0.01
Lower Lim.	8E-05	0.000972	0.000942	0.00043

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-14	BY-AP-MW-15	BY-AP-MW-16	BY-AP-MW-5
11/27/2018				<0.01
5/29/2019	<0.01	<0.01	<0.000203	<0.01
10/1/2019	<0.01	<0.01	<0.000203	<0.01
3/31/2020	<0.01		<0.000203	<0.01
4/1/2020		<0.01		
9/1/2020				<0.01
9/2/2020	<0.01	0.00209 (J)	<0.000203	
5/11/2021		0.00171		
5/19/2021			0.000136 (J)	
5/25/2021	0.000701			
10/26/2021		0.00206		
10/27/2021	0.00053			
11/1/2021			<0.000203	
11/2/2021				0.00012 (J)
5/25/2022	0.00052	0.0018	<0.000203	0.00011 (J)
10/31/2022				0.000344
11/1/2022	0.000643	0.00173	<0.000203	
Mean	0.005299	0.004924	0.0001946	0.006322
Std. Dev.	0.005026	0.004206	2.369E-05	0.005077
Upper Lim.	0.01	0.01	0.000203	0.01
Lower Lim.	0.00052	0.00171	0.000136	0.00011

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-6	BY-AP-MW-7	BY-AP-MW-8	BY-AP-MW-9
5/29/2019	<0.01	<0.01	<0.01	
5/30/2019				<0.01
9/30/2019		<0.01	<0.01	<0.01
10/1/2019	<0.01			
3/30/2020		<0.01	<0.01	
3/31/2020	<0.01			<0.01
9/2/2020	<0.01	<0.01	<0.01	<0.01
5/11/2021			0.000321	
5/17/2021	0.000117 (J)			
5/18/2021		0.000214		0.00022
10/26/2021			0.00019 (J)	
10/27/2021		0.00018 (J)		0.00021
11/2/2021	0.00011 (J)			
5/24/2022		0.00018 (J)	0.00023	0.00024
5/25/2022	0.00033			
10/31/2022	0.000122 (J)	0.00289		0.000157 (J)
11/2/2022			0.000232	
Mean	0.005085	0.005433	0.005122	0.005103
Std. Dev.	0.005255	0.004962	0.005215	0.005235
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.00011	0.00018	0.00019	0.000157

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 12/28/2022 5:21 PM View: AIV

Plant Barry Client: Southern Company Data: Barry Ash Pond

	BY-AP-MW-13
5/29/2019	<0.00102
10/1/2019	<0.00102
3/31/2020	<0.00102
9/1/2020	<0.00102
5/19/2021	<0.00102
10/26/2021	<0.00102
5/24/2022	0.00056 (J)
11/1/2022	0.000611 (J)
Mean	0.0009114
Std. Dev.	0.0002016
Upper Lim.	0.00102
Lower Lim.	0.00056

Appendix F



April 2022
Plant Barry



Laboratory Treatability Study Work Plan

Prepared for Alabama Power Company

April 2022
Plant Barry

Laboratory Treatability Study Work Plan

Prepared for
Alabama Power Company
600 18th Street North
Birmingham, Alabama 35203

Prepared by
Anchor QEA, LLC
6720 South Macadam Avenue, Suite 125
Portland, Oregon 97219

TABLE OF CONTENTS

1	Introduction	1
2	Selection of Reagents	2
3	Sampling and Initial Characterization	3
3.1	Groundwater	3
3.2	Aquifer Solids.....	3
3.3	Reagents.....	3
4	Batch Tests.....	4
5	Column Studies	5
6	Selective Sequential Extraction of Treated Soil	6
7	Data Analysis and Reporting	7
8	References	8

TABLES

Table 1	Groundwater Characterization Parameters and Laboratory Analytical Methods
Table 2	Constituents and Analytical Methods
Table 3	Sequential Extraction Procedure

FIGURE

Figure 1	Proposed Pilot Test Boring Locations
----------	--------------------------------------

ABBREVIATIONS

µm	micrometers
ADEM	Alabama Department of Environmental Management
APC	Alabama Power Company
CCR	coal combustion residuals
COI	constituent of interest
DO	dissolved oxygen
EGL	Anchor QEA Environmental Geochemistry Laboratory
MNA	monitored natural attenuation
ORP	oxidation-reduction potential
Plant Barry	James M. Barry Electric Generating Plan
SC	specific conductivity
SCS	Southern Company Services
Site	Plant Barry Ash Pond
SSE	selective sequential extraction
USEPA	U.S. Environmental Protection Agency
ZVI	zero-valent iron

1 Introduction

This work plan describes laboratory treatability studies for arsenic and cobalt in groundwater at the James M. Barry Electric Generating Plant (Plant Barry) Ash Pond (Site), located in Mobile County, Alabama. Plant Barry is owned and operated by Alabama Power Company (APC). This work builds on work previously performed for the Site by Anchor QEA.

As of April 15, 2019, the Site ceased receipt of all coal combustion residuals (CCR) and non-CCR waste streams. APC has been monitoring groundwater at the Site in accordance with the U.S. Environmental Protection Agency (USEPA) CCR Rule and the Alabama Department of Environmental Management (ADEM) rule since 2016. Constituents of interest (COIs) for the Site include arsenic and cobalt.

In 2020 and 2021, corrective measures for groundwater were evaluated for the Site. In situ groundwater treatment via injection was selected as one viable option, particularly for areas with higher concentrations of COIs in groundwater (hot spots). Therefore, pilot tests at three locations were proposed in the *Groundwater Remedy Selection Report* (Anchor QEA 2021a). The necessary steps to implement an injection treatment pilot test include laboratory treatability studies, selection of the most effective treatment reagent(s), and preparation of an underground injection control application.

The treatability studies proposed herein will evaluate reagent selection, dosing, and injection sequencing for in situ groundwater treatment as described in the following subsections. Background information, including Site-specific findings from monitored natural attenuation (MNA) studies and reagents to be tested in the treatability studies, is summarized in Section 2. Initial characterization of groundwater and aquifer solids (i.e., soil) is discussed in Section 3 followed by an overview of the treatability study approach including batch testing (Section 4), column studies (Section 5), and selective sequential extraction (SSE; Section 6). Analysis of the treatability study data and reporting are discussed in Section 7 and the project schedule is presented in Section 8.

2 Selection of Reagents

Selection and formulation of reagent solutions that can be injected to sequester Site-specific COIs will be based on Site-specific soil and groundwater geochemistry, previous Site work, and experience from successful treatability studies performed by Anchor QEA for the same COIs at other sites. The MNA demonstration (Anchor QEA 2021a) documented key geochemical attenuation mechanisms occurring at the Site, including:

- Sorption on amorphous iron oxides (arsenic and cobalt)
- Cation exchange on clays (cobalt)
- Coprecipitation in crystalline iron oxides (arsenic and cobalt)
- Precipitation in barium arsenate (arsenic)

Iron oxides are strong sorbents for many metals and metalloids including arsenic and cobalt, and Eh-pH conditions in the subsurface at the Site are generally favorable for formation of iron oxides. Therefore, the treatability studies are focused on reagents (or mixtures) with the potential to increase the abundance and the stability of iron hydroxides and iron oxides in the subsurface. Barium chloride was added to the reagent list as geochemical modeling predicted that barium arsenate could precipitate from groundwater if sufficient barium were present in the system. Based on Site conditions and previous treatability studies for other CCR sites (e.g., EPRI 2021), the following reagents were selected for treatability testing:

1. Ferrous sulfate
2. Ferric chloride
3. CleanER (injectable zero-valent iron [ZVI])
4. Ferroblack (injectable iron sulfide)
5. Permanganate
6. Ferrous sulfate with permanganate
7. Ferric chloride with permanganate and manganese chloride
8. Barium chloride
9. Aeration (due to the relatively high iron content of Site groundwater)
10. Hydrotalcite

These 10 potential treatments (or mixtures thereof) will be screened and evaluated through batch testing as described in Section 4. The most promising reagents (or mixtures) will be selected for column studies (see Section 5).

3 Sampling and Initial Characterization

Aquifer solids (i.e., soil) and groundwater will be collected from the Site for treatability testing to be conducted at the Anchor QEA Environmental Geochemistry Laboratory (EGL). Site aquifer solids (soil) and groundwater will be collected in accordance with the *Aquifer Solids and Groundwater Sampling Scope of Work for Treatability Studies* (Anchor QEA 2021b) memorandum.

3.1 Groundwater

Groundwater samples will be collected by Alabama Power with support from Anchor QEA from wells BY-AP-MW-1, BY-AP-MW-2,¹ BY-AP-MW-8, BY-AP-MW-10, BY-AP-MW-15V, and BY-AP-MW-24H. Five gallons of Site groundwater from each selected well will be required to complete the batch treatability tests (described in Section 4). An additional 10 gallons of Site groundwater from each selected well will be required to complete the column testing (described in Section 5) and will be collected after the batch testing is completed. As detailed in the sampling plan, the groundwater provided to the EGL will be collected, transported, and handled to minimize exposure to oxygen. Groundwater samples will be field-filtered with a 0.45-micron inline filter.

Groundwater samples will be analyzed for COIs (arsenic and cobalt), as well as other Appendix III/IV parameters, and additional MNA parameters by Alabama Power (Table 1). Supplemental analyses will be performed for COIs and select parameters including pH, oxidation-reduction potential [ORP], dissolved oxygen [DO], total and dissolved iron and manganese on as-received samples prior to commencing treatability testing. Groundwater characterization data will guide the treatability study design and the evaluation of results.

3.2 Aquifer Solids

Aquifer solids were collected from four pilot test borings (BY-AP-PT-1, -2, -3, and -5) as described in the *Aquifer Solids and Groundwater Sampling Scope of Work for Treatability Studies* (Anchor QEA 2021b) memorandum and as appear in Figure 1. Initial characterization of aquifer solids (soil) will include the analyses listed in Table 2.

3.3 Reagents

Prior to initiating the column studies (described in Section 5), a sample of each of the selected reagents will be analyzed for Appendix III/ IV parameters to characterize impurity levels of these constituents.

¹ Groundwater from BY-AP-MW-2 will be collected for column tests only.

4 Batch Tests

Screening batch tests will be performed to assess the effectiveness of injectable reagents (see list of reagents in Section 2) in reducing COI concentrations in Site groundwater and groundwater-soil slurries.

The approach for screening batch tests is as follows²:

- Step 1: Test jars will be set up with groundwater or groundwater/aquifer solid slurries.
- Step 2: Reagents or reagent mixtures will be added to the test jars at a pre-determined dose based on groundwater chemistry and prior experience. Test jars will also include controls with no reagents added. Test jars will be sealed and placed on a shaker table for 7 days.
- Step 3: Samples of the treated groundwater solutions will be collected and analyzed for dissolved arsenic and cobalt (per the analytical laboratory methods specified in Table 1). pH, ORP, and specific conductivity (SC) will be measured in the EGL.
- Step 4: The solids from each batch reactor will be recovered and archived for possible future analysis.

Arsenic and cobalt removal efficiency will be evaluated by comparing the initial concentrations in the groundwater samples and controls to the concentrations in the treated groundwater solutions.

Following the initial screening batch tests, additional focused batch testing may be conducted to optimize COI removal. For example, these optimization batch tests may involve adjusting the dose of a reagent or adjusting the pH to increase COI removal. Following completion of the batch testing, up to two reagents (or reagent mixtures) that achieve successful removal of arsenic and cobalt will be selected for column studies.

² Batch tests will be conducted in accordance with modified versions of ASTM International Methods D2035-19 (Practice for Coagulation-Flocculation Jar Test of Water) and D4646-03 (Test Method for 24-h Batch-Type Measurement of Contaminant Sorption by Soils and Sediments).

5 Column Studies

Column studies will be conducted to simulate injection applications of the selected reagents (or reagent mixtures). The results of the column studies will be used to confirm arsenic and cobalt removal efficiency and determine uptake capacity of injection-treated aquifer soil to support pilot test design. Results from column studies will also be used to confirm that treatments will not inadvertently increase concentrations of other constituents above groundwater quality standards, for example, due to release from the aquifer matrix.

The approach for column studies is as follows (Westerhoff et al. 2005):

- Step 1: Aquifer solids will be treated with the selected reagent or reagent mixture by treating a pre-weighed homogenized mass of aquifer solids with a predetermined amount of the selected reagent(s; based on the batch test results) in solution. The soil-reagent mixture will be placed on a shaker table and allowed to react for three days.
- Step 2: The treated aquifer solids will be packed into 4.2-centimeter-diameter by 22-centimeter-length polycarbonate column assemblies. Site groundwater containing COIs will be introduced into column influents at a constant flow rate.
- Step 3: Columns will be operated for a total of 4 weeks or approximately 100 pore volumes.
- Step 4: Column influent and effluent solutions will be sampled periodically and pH, ORP, and SC will be measured. The cumulative flow volume will also be recorded at the time of sampling and used to calculate the total number of pore volumes treated.
- Step 5: Samples will be filtered (0.45 micrometers [μm]) and analyzed for dissolved arsenic and cobalt, and treatment reagent constituent concentrations. Select Appendix III and IV constituents (Table 1) may also be analyzed based on soil concentrations.
- Step 6: Following completion of this phase of the column test, the column influent will be switched to background groundwater to assess the stability of the treatment. The column will continue to run at a constant flow rate for approximately 10 pore volumes. Column influents and effluents will be sampled at approximately 5 and 10 pore volumes of flow. Samples will be analyzed for dissolved COIs, constituents of the treatment reagents used (e.g., iron, manganese, barium, chloride, sulfate), and select Appendix III/ IV constituents.

Arsenic and cobalt removal efficiency (and mass uptake from groundwater) will be evaluated by comparing the respective concentrations in the column influent to the concentrations in the effluent. COI removal capacity per unit reagent dose will be estimated from column breakthrough curves and mass balance calculations. The removal capacity will provide data to support design of pilot tests, including injection volumes and reagent mass. At the end of the column tests, column solids will be recovered for SSE to further document COI sequestration strength by the reagent-treated soil matrix and to assess the stability of the treatment.

6 Selective Sequential Extraction of Treated Soil

Following completion of the column tests, the column media will be recovered and tested using a five-step SSE procedure. The extraction procedure is designed to fractionate the COIs in a solid sample by subjecting the sample to a sequence of chemical treatments that target specific chemical forms. Concentrations and relative proportions of arsenic and cobalt present in the operationally defined fractions shown in Table 3 will be determined on a total sample dry weight basis. Sequential extraction will be performed in accordance with the EGL standard operating procedure.

SSE will provide information on the stability of COIs removed by precipitates formed in situ via reagent injection under conditions representative of Site application. These data will support a more thorough understanding of the permanence (stability) of COI removal by the treatment.

7 Data Analysis and Reporting

Anchor QEA will analyze the data from the batch tests, column tests, and SSE results and make recommendations regarding the reagents or reagent mixtures to be used for pilot testing at the Site. Results from the column tests will also be used to support pilot test design. The recommended reagent or mix will be tailored to the COIs present and geochemical conditions at each pilot location.

Anchor QEA will meet with the client to review the results of the batch tests and discuss the recommended reagent(s) prior to initiating the column studies. After the column studies and SSE are complete, Anchor QEA will present findings and recommendations to the client in advance of preparing the draft treatability study report. This report will document the treatability studies, present the data obtained through these studies, and discuss recommendations for pilot studies of the most promising treatment(s).

8 References

Anchor QEA, 2021a. *Groundwater Remedy Selection Report*. Plant Barry. Prepared for Alabama Power Company. October 2021.

Anchor QEA, 2021b. Memorandum to: Greg Dyer, Southern Company Services, Inc. Regarding: Aquifer Solids and Groundwater Sampling Scope of Work for Treatability Studies. December 23, 2021.

Westerhoff, P., D. Highfield, M. Badruzzaman, and Y. Yoon, 2005. "Rapid Small-Scale Column Tests for Arsenate Removal in Iron Oxide Packed Bed Columns." *Journal of Environmental Engineering* 131(2):262–271.

Tables

Table 1
Groundwater Characterization Parameters and Laboratory Analytical Methods

Parameter	Analytical Method	Detection Limit
Appendix III Parameters		
Boron	EPA 200.8/6020	10.0 µg/L
Calcium	EPA 200.8/6020	600 µg/L
Chloride	300.0/9056A	1.00 mg/L
Fluoride	SM 4500 F_C	0.100 mg/L
pH	None	--
Sulfate	300.0/9056A	1.00 mg/L
Total dissolved solids	SM 2540C	5.00 mg/L
Appendix IV Parameters		
Antimony	EPA 200.8/6020	1.00 µg/L
Arsenic	EPA 200.8/6020	1.00 µg/L
Barium	EPA 200.8/6020	2.00 µg/L
Beryllium	EPA 200.8/6020	0.200 µg/L
Cadmium	EPA 200.8/6020	0.200 µg/L
Chromium	EPA 200.8/6020	2.00 µg/L
Cobalt	EPA 200.8/6020	1.00 µg/L
Fluoride	SM 4500 F_C	0.100 mg/L
Lead	EPA 200.8/6020	0.200 µg/L
Lithium	EPA 200.8/6020	5.00 µg/L
Mercury	EPA 1631	0.000100 mg/L
Molybdenum	EPA 200.8/6020	1.00 µg/L
Selenium	EPA 200.8/6020	1.00 µg/L
Thallium	EPA 200.8/6020	0.200 µg/L
MNA-Specific Parameters		
Alkalinity (total as CaCO ₃)	SM 2320 B	20.0 mg/L
Aluminum (total and dissolved)	EPA 200.8/6020	50.0 µg/L
Bicarbonate alkalinity (calculated)	SM 4500CO2 D	20.0 mg/L
Carbonate alkalinity (calculated)	SM 4500CO2 D	20.0 mg/L
Iron (total and dissolved)	EPA 200.8/6020	50.0 µg/L
Magnesium (dissolved)	EPA 200.8/6020	150.0 µg/L
Manganese (total and dissolved)	EPA 200.8/6020	1.00 µg/L
Nitrogen nitrate/nitrite	EPA 353.2	0.0200 mg/L
Potassium (dissolved)	EPA 200.8/6020	100 µg/L
Silica (dissolved)	SM 4500-SiO ₂	0.500 mg/L
Sodium (dissolved)	EPA 200.8/6020	100.0 µg/L
Sulfide	SM 4500-S ₂	Subcontracted
Total organic carbon	SM 5310 C	1.00 mg/L

Notes:

The following field parameters will be measured for each monitoring well sample: depth to water, total depth, pH, temperature, ORP, DO, turbidity, and SC.

µg/L: micrograms per liter

ORP: oxidation reduction potential

DO: dissolved oxygen

SC: specific conductance

EPA: U.S. Environmental Protection Agency

SM: Standard Method

mg/L: milligrams per liter

Table 2
Constituents and Analytical Methods

Constituent	Analytical Method	Detection Limit
Arsenic	EPA Method 6020B	0.5 mg/kg
Cobalt	EPA Method 6020B	0.5 mg/kg
Lithium	EPA Method 6020B	2.5 mg/kg
Iron	EPA Method 6020B	1 mg/kg
Manganese	EPA Method 6020B	1 mg/kg
Cation exchange capacity	EGL SOP/6020B	--
Extractable iron, aluminum, and manganese oxides	EGL SOP/6020B	1 mg/kg
Sulfide	SM4500-S2	1 mg/kg
Total organic carbon	EPA Method 9060A	200 mg/kg
Appendix IV Parameters		
Antimony	EPA 200.8/6020	0.5 mg/kg
Barium	EPA 200.8/6020	0.5 mg/kg
Beryllium	EPA 200.8/6020	0.5 mg/kg
Cadmium	EPA 200.8/6020	0.5 mg/kg
Chromium	EPA 200.8/6020	0.5 mg/kg
Fluoride	SM 4500 F_C	1 mg/kg
Lead	EPA 200.8/6020	0.5 mg/kg
Mercury	EPA 1631	0.5 mg/kg
Molybdenum	EPA 200.8/6020	0.5 mg/kg
Selenium	EPA 200.8/6020	0.5 mg/kg
Thallium	EPA 200.8/6020	0.5 mg/kg

Notes:

Solids will be digested by EPA Method 3050B prior to analysis.

EPA: U.S. Environmental Protection Agency

mg/kg: milligrams per kilogram

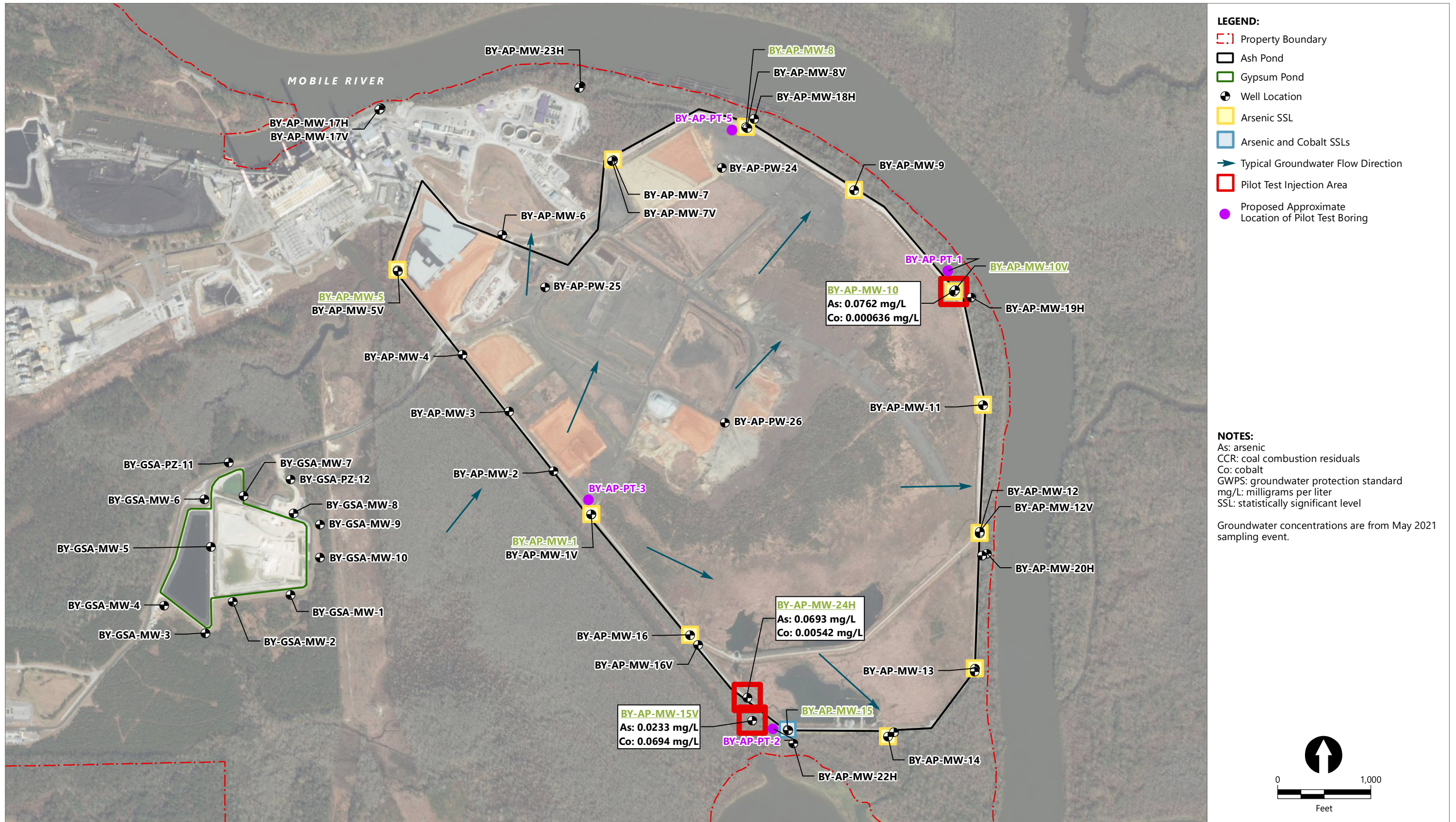
SOP: standard operating procedure

SM: Standard Method

Table 3
Sequential Extraction Procedure

Fraction	Name	Targeted COI Phase	Extraction Fluid
F1	Soluble	Dissolved and loosely bound	Magnesium chloride
F2	Exchangeable	Clay mineral exchange sites and weakly bound to oxides	Ammonium phosphate
F3	Reducible	Amorphous iron oxide bound	Hydroxylamine hydrochloride
F4	Strong Acid/Oxidizable	Crystalline oxides, sulfides and/or organic matter bound	Nitric acid
F5	Residual	Silicates and other insoluble phases	Aqua regia

Figure



Publish Date: 2021/12/09, 3:48 PM | User: jquinley
 Filepath: \\orcas\GIS\Jobs\SouthernCompany_1114\MultiplePlants\2021_12\TreatabilityStudies\AQ_Figure02_PlantBarry_ProposedLocs_PilotTestBorings.mxd



Figure 1
Proposed Pilot Test Boring Locations
 Laboratory Treatability Study Work Plan
 Plant Barry